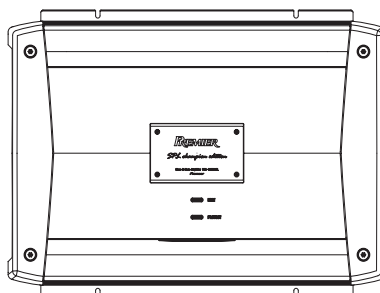


# Service Manual



PRS-D1200SPL/XU/UC

ORDER NO.  
**CRT3933**

CLASS D MONO AMPLIFIER

# PRS-D1200SPL<sub>/XU/UC</sub> PRS-D1200SPL<sub>/XUEW5</sub>



For details, refer to "Important check points for good servicing".

# SAFETY INFORMATION

## **CAUTION**

This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual. Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

## **WARNING**

This product contains lead in solder and certain electrical parts contain chemicals which are known to the state of California to cause cancer, birth defects or other reproductive harm.  
Health & Safety Code Section 25249.6 - Proposition 65

## [Important Check Points for Good Servicing]

In this manual, procedures that must be performed during repairs are marked with the below symbol. Please be sure to confirm and follow these procedures.

### 1. Product safety



Please conform to product regulations (such as safety and radiation regulations), and maintain a safe servicing environment by following the safety instructions described in this manual.

- ① Use specified parts for repair.

Use genuine parts. Be sure to use important parts for safety.

- ② Do not perform modifications without proper instructions.

Please follow the specified safety methods when modification(addition/change of parts) is required due to interferences such as radio/TV interference and foreign noise.

- ③ Make sure the soldering of repaired locations is properly performed.

When you solder while repairing, please be sure that there are no cold solder and other debris. Soldering should be finished with the proper quantity. (Refer to the example)

- ④ Make sure the screws are tightly fastened.

Please be sure that all screws are fastened, and that there are no loose screws.

- ⑤ Make sure each connectors are correctly inserted.

Please be sure that all connectors are inserted, and that there are no imperfect insertion.

- ⑥ Make sure the wiring cables are set to their original state.

Please replace the wiring and cables to the original state after repairs. In addition, be sure that there are no pinched wires, etc.

- ⑦ Make sure screws and soldering scraps do not remain inside the product.

Please check that neither solder debris nor screws remain inside the product.

- ⑧ There should be no semi-broken wires, scratches, melting, etc. on the coating of the power cord.

Damaged power cords may lead to fire accidents, so please be sure that there are no damages. If you find a damaged power cord, please exchange it with a suitable one.

- ⑨ There should be no spark traces or similar marks on the power plug.

When spark traces or similar marks are found on the power supply plug, please check the connection and advise on secure connections and suitable usage. Please exchange the power cord if necessary.

- ⑩ Safe environment should be secured during servicing.

When you perform repairs, please pay attention to static electricity, furniture, household articles, etc. in order to prevent injuries. Please pay attention to your surroundings and repair safely.

### 2. Adjustments



To keep the original performance of the products, optimum adjustments and confirmation of characteristics within specification. Adjustments should be performed in accordance with the procedures/instructions described in this manual.

### 3. Lubricants, Glues, and Replacement parts



Use grease and adhesives that are equal to the specified substance. Make sure the proper amount is applied.

### 4. Cleaning



For parts that require cleaning, such as optical pickups, tape deck heads, lenses and mirrors used in projection monitors, proper cleaning should be performed to restore their performances.

### 5. Shipping mode and Shipping screws



To protect products from damages or failures during transit, the shipping mode should be set or the shipping screws should be installed before shipment. Please be sure to follow this method especially if it is specified in this manual.

# CONTENTS

	SAFETY INFORMATION.....	2
	1. SERVICE PRECAUTIONS.....	5
A	1.1 SERVICE PRECAUTIONS.....	5
	1.2 NOTES ON SOLDERING.....	5
	2. SPECIFICATIONS.....	6
	2.1 SPECIFICATIONS.....	6
	2.2 PANEL FACILITIES.....	7
	2.3 CONNECTION DIAGRAM.....	8
	3. BASIC ITEMS FOR SERVICE.....	9
	3.1 CHECK POINTS AFTER SERVICING.....	9
	3.2 JIGS LIST.....	10
	4. BLOCK DIAGRAM.....	11
	5. DIAGNOSIS.....	12
	5.1 CONNECTOR FUNCTION DESCRIPTION.....	12
B	6. SERVICE MODE.....	13
	7. DISASSEMBLY.....	14
	8. EACH SETTING AND ADJUSTMENT.....	18
	8.1 ADJUSTMENT.....	18
	9. EXPLODED VIEWS AND PARTS LIST.....	20
	9.1 PACKING.....	20
	9.2 EXTERIOR.....	22
	10. SCHEMATIC DIAGRAM.....	26
	10.1 SCHEMATIC DIAGRAM(GUIDE PAGE).....	26
	10.2 REMOTE CONTROL UNIT.....	32
	11. PCB CONNECTION DIAGRAM.....	34
	11.1 AMP UNIT.....	34
C	11.2 REMOTE CONTROL UNIT.....	38
	12. ELECTRICAL PARTS LIST.....	39

# 1. SERVICE PRECAUTIONS

## 1.1 SERVICE PRECAUTIONS

### ● Service Precaution



1. You should conform to the regulations governing the product (safety, radio and noise, and other regulations), and should keep the safety during servicing by following the safety instructions described in this manual.
2. Be careful in handling ICs. Some ICs such as MOS type are so fragile that they can be damaged by electrostatic induction.
3. The area where the temperature gets high as a completely assembled product is the heat sink. As a unit, on the other hand, sub-heat sink and the periphery of the sub-heat sink are the areas where the temperature gets high.
4. There is a danger for electrical shock in the periphery of an area where "CAUTION High Voltage" is indicated on the printed circuit board due to a high voltage being generated during operation. Therefore, be careful when working around such areas.
5. The Holder Unit(CXC8183) cannot be used again when removing once. Please exchange it for new parts when you remove the Holder Unit from the product. Reattachment of the Holder Unit having once peeled off may possibly leak the light from an aperture generated by the weak adhesion of two-sided tape.
6. Since the secondary voltage is not discharged upon power-off of the product after the product operation check (some residual voltage is left even after five minutes), forcibly discharge the voltage or conduct servicing after checking the voltage with a tester.
7. When replacing the power FET or the output FET, parts connected in parallel need to be replaced at the same time.

## 1.2 NOTES ON SOLDERING

### NOTES ON SOLDERING

- For environmental protection, lead-free solder is used on the printed circuit boards mounted in this unit. Be sure to use lead-free solder and a soldering iron that can meet specifications for use with lead-free solders for repairs accompanied by reworking of soldering.
- Compared with conventional eutectic solders, lead-free solders have higher melting points, by approximately 40 °C. Therefore, for lead-free soldering, the tip temperature of a soldering iron must be set to around 373 °C in general, although the temperature depends on the heat capacity of the PC board on which reworking is required and the weight of the tip of the soldering iron.

Compared with eutectic solders, lead-free solders have higher bond strengths but slower wetting times and higher melting temperatures (hard to melt/easy to harden).

The following lead-free solders are available as service parts:

- Parts numbers of lead-free solder:  
GYP1006 1.0 in dia.  
GYP1007 0.6 in dia.  
GYP1008 0.3 in dia.

## 2. SPECIFICATIONS

### 2.1 SPECIFICATIONS

A	Power source .....	14.4 V DC (10.8 V to 15.1 V allowable)
	Grounding system .....	Negative type
	Backup current .....	3 mA or less
	Current consumption .....	44 A (at continuous power, 4 $\Omega$ )
	Average current drawn* .....	12 A (4 $\Omega$ for one channel) 26 A (2 $\Omega$ for one channel) 34 A (1 $\Omega$ for one channel)
B	Fuse .....	40 A $\times$ 4
	Dimensions .....	381 (W) $\times$ 65 (H) $\times$ 282 (D) mm [1 ft. 3 in. (W) $\times$ 2-1/2 in. (H) $\times$ 1-1/8 in. (D)]
	Weight .....	6.0 kg (13 lbs.) (Leads for wiring not included)
	Maximum power output .....	1 000 W $\times$ 1 (4 $\Omega$ ) / 2 000 W $\times$ 1 (2 $\Omega$ ) / 2 400 W $\times$ 1 (1 $\Omega$ )
	Continuous power (14.4 V) .....	4 $\Omega$ , 20 Hz to 240 Hz, $\leq$ 1.0 % THD, 500 W $\times$ 1 2 $\Omega$ , 50 Hz, $\leq$ 1.0 % THD, 1 000 W $\times$ 1 1 $\Omega$ , 50 Hz, $\leq$ 2.0 % THD, 1 200 W $\times$ 1
	Load impedance .....	4 $\Omega$ (1 $\Omega$ to 8 $\Omega$ allowable)
	Frequency response .....	10 Hz to 240 Hz (+0 dB, -3 dB)
	S/N ratio (UC model) .....	80 dB (IHF-A network)
	(EW5 model) .....	80 dB (IEC-A network)
	Low pass filter .....	Cut off frequency: 40 Hz to 240 Hz Cut off slope: -24 dB/oct.
C	Subsonic filter (HPF) .....	Frequency: 20 Hz Slope: -24 dB/oct.
	Bass boost .....	Frequency: 40 Hz to 120 Hz Level: 0 / 6 / 9 / 12 dB
	Gain control .....	RCA: 400 mV to 6.5 V
	Maximum input level / impedance .....	RCA: 6.5 V / 22 k $\Omega$
	(UC model)	

Power output .....	500 W RMS $\times$ 1 channel
	(at 4 $\Omega$ and $\leq$ 1% THD+N)
	1 000 W RMS $\times$ 1 channel
S/N ratio .....	(at 50 Hz, 2 $\Omega$ and $\leq$ 1% THD+N)
	54 dBA (reference: 1 W into 4 $\Omega$ )



#### Note:

- Specifications and the design are subject to possible modification without notice due to improvements.

#### \*Average current drawn

- The average current drawn is nearly the maximum current drawn by this unit when an audio signal is input. Use this value when working out total current drawn by multiple power amplifiers.

## 2.2 PANEL FACILITIES

### MODE SELECT Switch

You can select amplifier's sync mode from MASTER, SYNC and SYNC INV. Set the MODE SELECT switch to the MASTER position when using one amplifier only. When using synchronously connecting two or more of these amplifiers in combination, set the first amplifier to MASTER, and set the remaining amplifiers to SYNC or SYNC INV according to the manner in which they are connected. The only time the amplifier is switched to the SYNC INV mode is when amplifiers are synchronously connected with the ex. bridge. When switching to the SYNC or SYNC INV mode, remove the screw and stopper. Remove the screw and stopper after checking that connections are correct.

### Terminal Cover

Before setting up the unit, unscrew the screws with a 4 mm hexagonal wrench and remove the terminal cover.

### Gain Control

If the sound level is too low, even when the volume of the car stereo used along with this power amplifier is turned up, turn gain control clockwise. If the sound distorts when the volume is turned up, turn the gain control counter-clockwise.

- When using with an RCA equipped car stereo (standard output of 500 mV), set to the NORMAL position. When using with an RCA equipped Pioneer car stereo with max. output of 4 V or more, adjust level to match the car stereo output level.

### BFC (Beat Frequency Control) Switch

If you hear a beat while listening to an AM broadcast with your car stereo, change the BFC switch using a small standard tip screwdriver.

### Bass Boost Frequency Control

You can select a bass boost frequency from 40 Hz to 120 Hz with the bass boost control.

### Bass Boost Level Control

You can select a bass boost level from 0, 6, 9 and 12 dB.

### Cut Off Frequency Control for LPF

You can select a cut off frequency from 40 Hz to 240 Hz.

### Subsonic Select Switch

The subsonic filter cuts inaudible frequencies below 20 Hz to eliminate unwanted vibrations and minimize power loss.

### HEAT Indicator (Yellow)

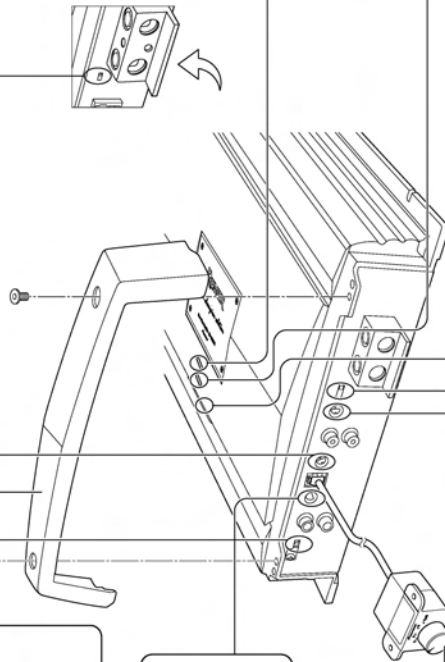
This indicates a problem with the amplifier.

### PROTECT Indicator (Red)

This indicates a problem with the amplifier.

### Power Indicator (Blue)

The power indicator lights when the power is switched on.



## 4

**A**



C

D

E

F

### 3. BASIC ITEMS FOR SERVICE

#### 3.1 CHECK POINTS AFTER SERVICING

To keep the product quality after servicing, please confirm following check points.

No.		Procedures	Item to be confirmed
1		Confirm whether the customer complain has been solved.	The customer complain must not be reappeared. Audio and operations must be normal.
2		Check the output sound.	Audio and operations must be normal.
3		Appearance check	No scratches or dirt on its appearance after receiving it for service.

See the table below for the items to be checked regarding video and audio:

Item to be checked regarding audio
Distortion
Noise
Volume too low
Volume too high
Volume fluctuating
Sound interrupted

3.2 JIGS LIST

● Lubricants and Glues list

A

Name	Jig No.	Remarks
Bond	GEM1017	Applying to Chemical Capacitor etc. (*)
Bond	GYL1006	Applying to Thermistor

(\*) You can use GEM1017 even if the color is defferent from the original ones.

B

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# 4. BLOCK DIAGRAM

There is no information to be shown in this chapter.

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12

1

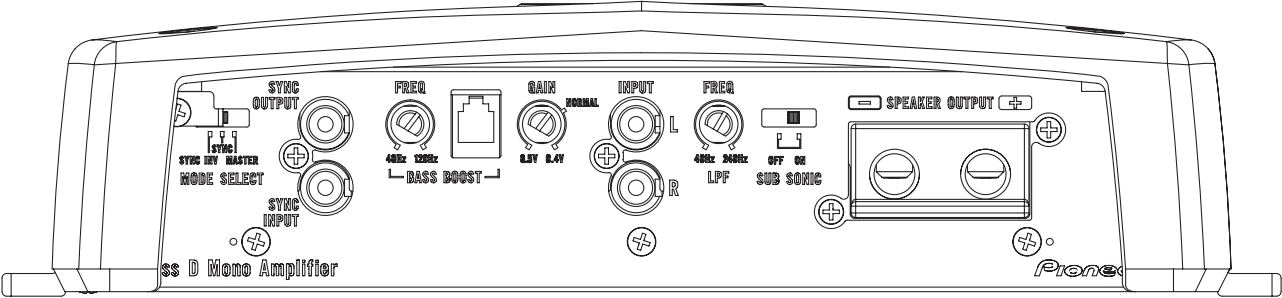
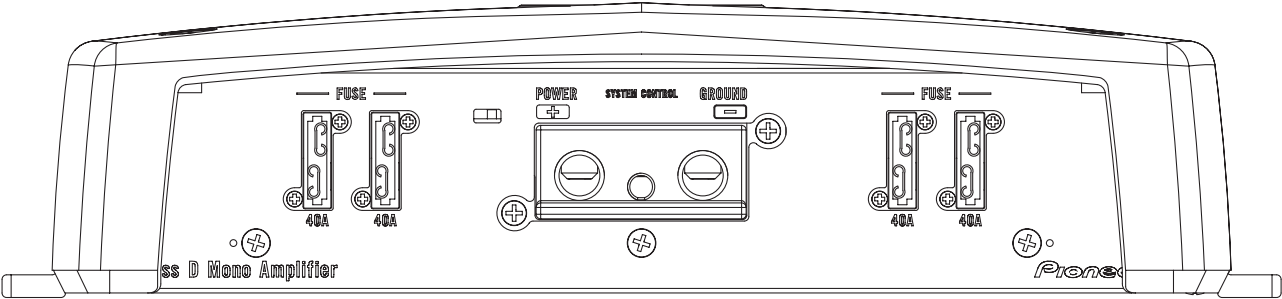
2

3

4

# 5. DIAGNOSIS

## 5.1 CONNECTOR FUNCTION DESCRIPTION



## 6. SERVICE MODE

There is no information to be shown in this chapter.

A

B

C

D

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F

## 7. DISASSEMBLY

You can see the Screws List on the page 24.

### ● Removing the Case (Fig.1)

- 1** Remove the six screws.
- 2** Remove the nine screws and then remove the Case.

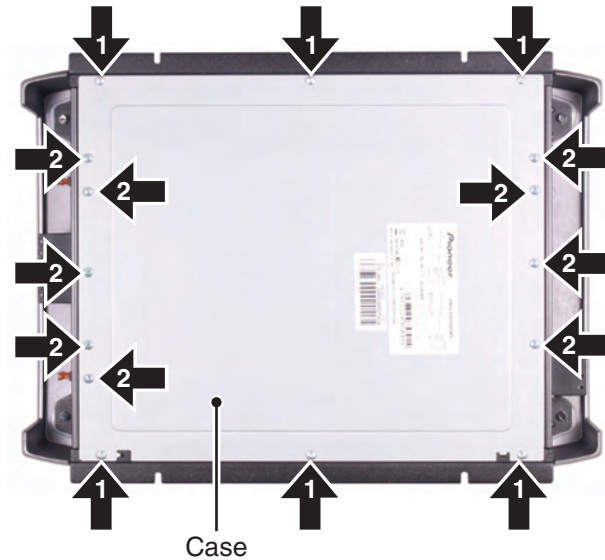


Fig.1

Note)

When removing the case, remove it from the positioning side. Removal from the opposite side may deform the positioning pin. (Fig.2)

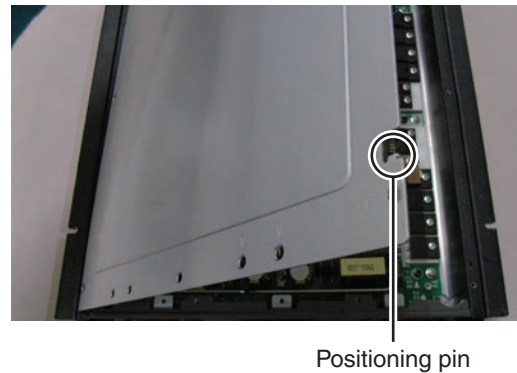


Fig.2

Note)

This product has high voltage circuit inside, and the voltage will be kept for a while by big capacitors. So, before starting disassembly, make sure if the voltage of +VH and -VH become low enough after turning off the power supply.

If you want to discharge the capacitors faster, connect the resistors of same value in parallel with the original discharge resistors (R241 and R245).

### ● Removing the Amp Unit (Fig.3)

- 1** Remove the four screws.
- 2** Remove the ten screws.
- 3** Remove the six screws and then remove the Amp Unit.

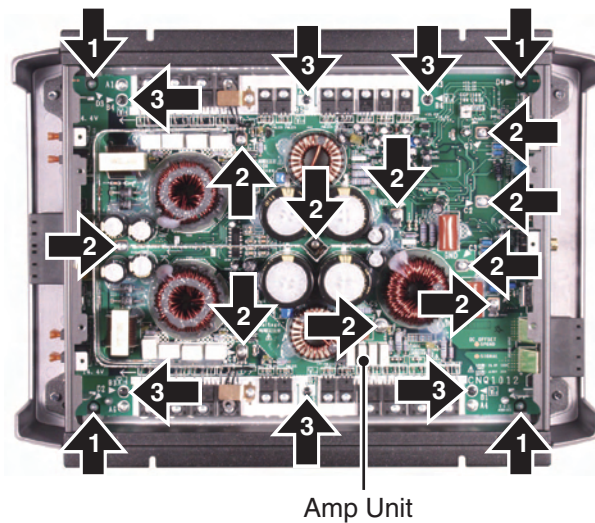
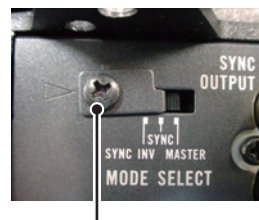


Fig.3

Note)

Remove a screw for MODE SELECT only when switching over the mode selection. You do not have to remove this screw when removing the unit board. (Fig.4)



Screw for MODE SELECT

Fig.4



## ● Bonding Position

A

B

B

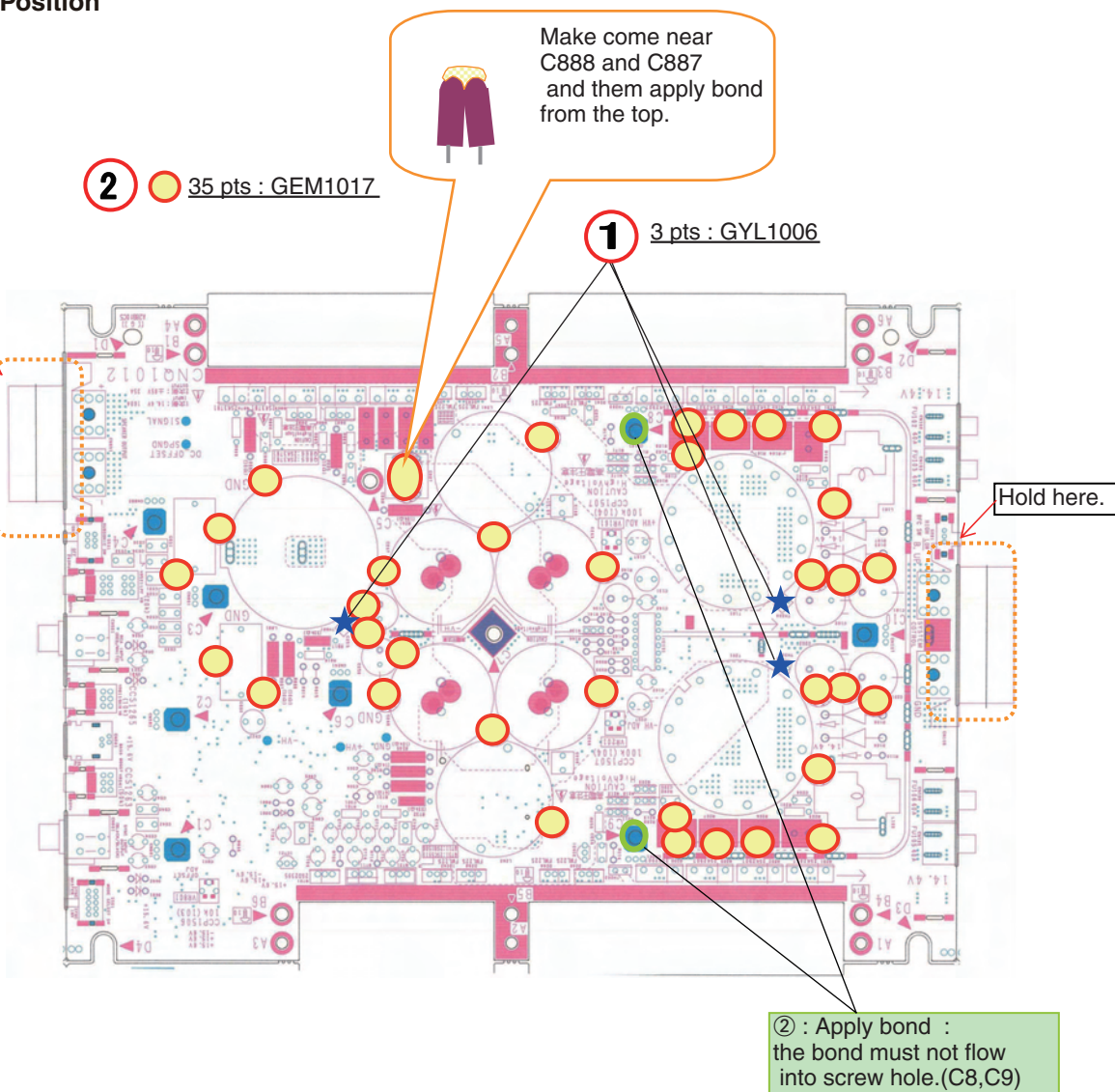
C

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D

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### ① ★ 3 pts

Press the thermistor against the transformer and apply an adhesive as the end of the thermistor touches the transformer.



\* TACK-FREE TIME 5 minutes

### ②

● BOND LOCK 35 pts

《Capacitor》



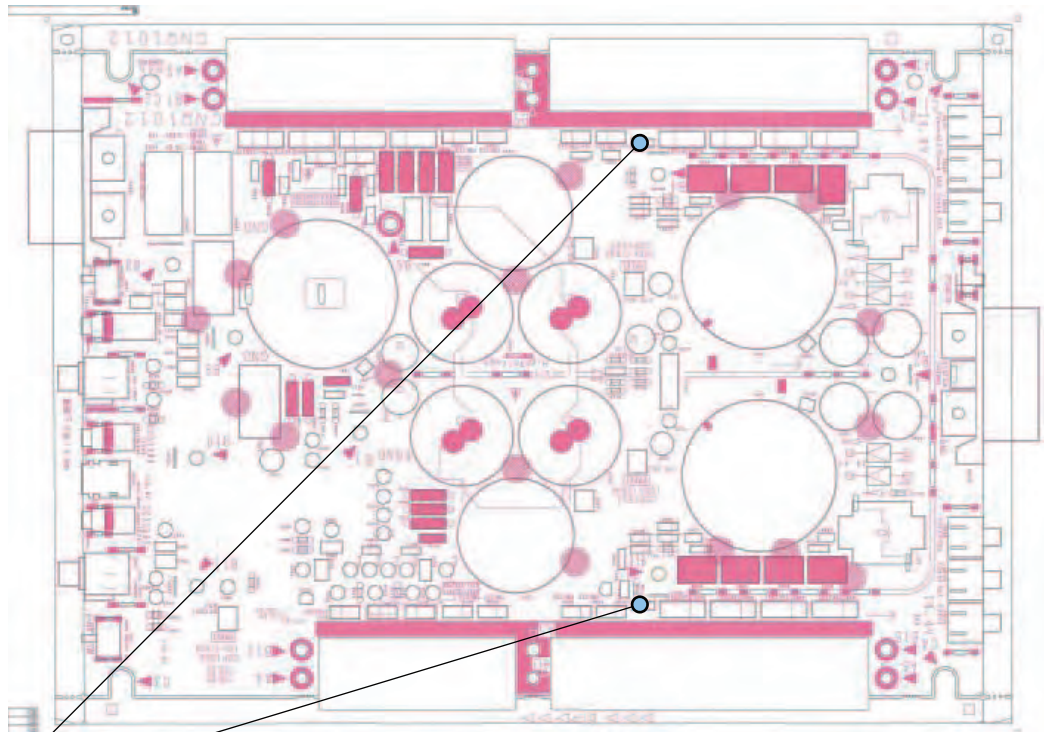
\*Bond should be applied both of parts and PCB.

\*Be aware not to apply bond on contact point of connector, seat area of screw.

\* TACK-FREE TIME 10 minutes

Note)

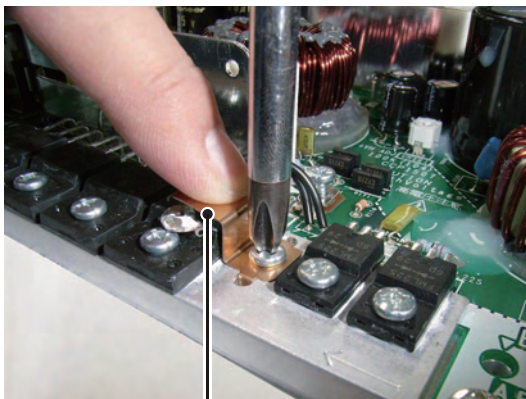
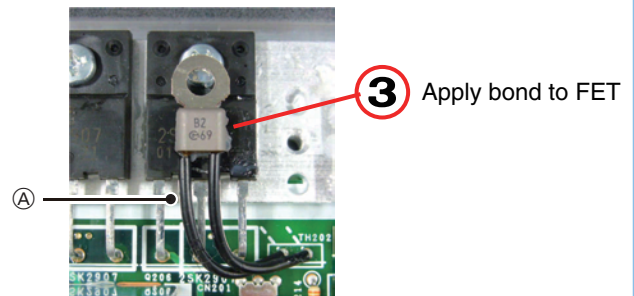
When applying bond to two Film Capacitors (C887 and C888) , attach them and apply bond.



Ⓐ : Should be mounted closely.

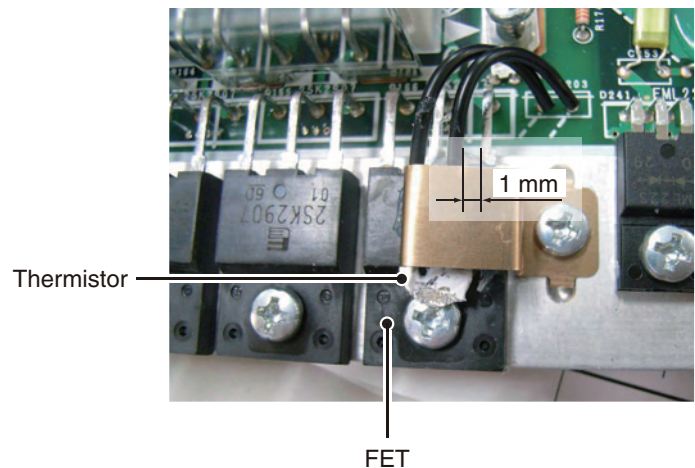
Ⓐ : The styling of lead of TH, must be straight. (pay attention to a photograph.)

**3** 2 pts : GYL1006



Spring

When installing a Spring for holding of Thermistor, tighten a screw while pushing down the spring.



Place a Thermistor at the center of FET such that the rightmost terminal of FET and the Thermistor terminal are separated by 1 mm or more.

1234

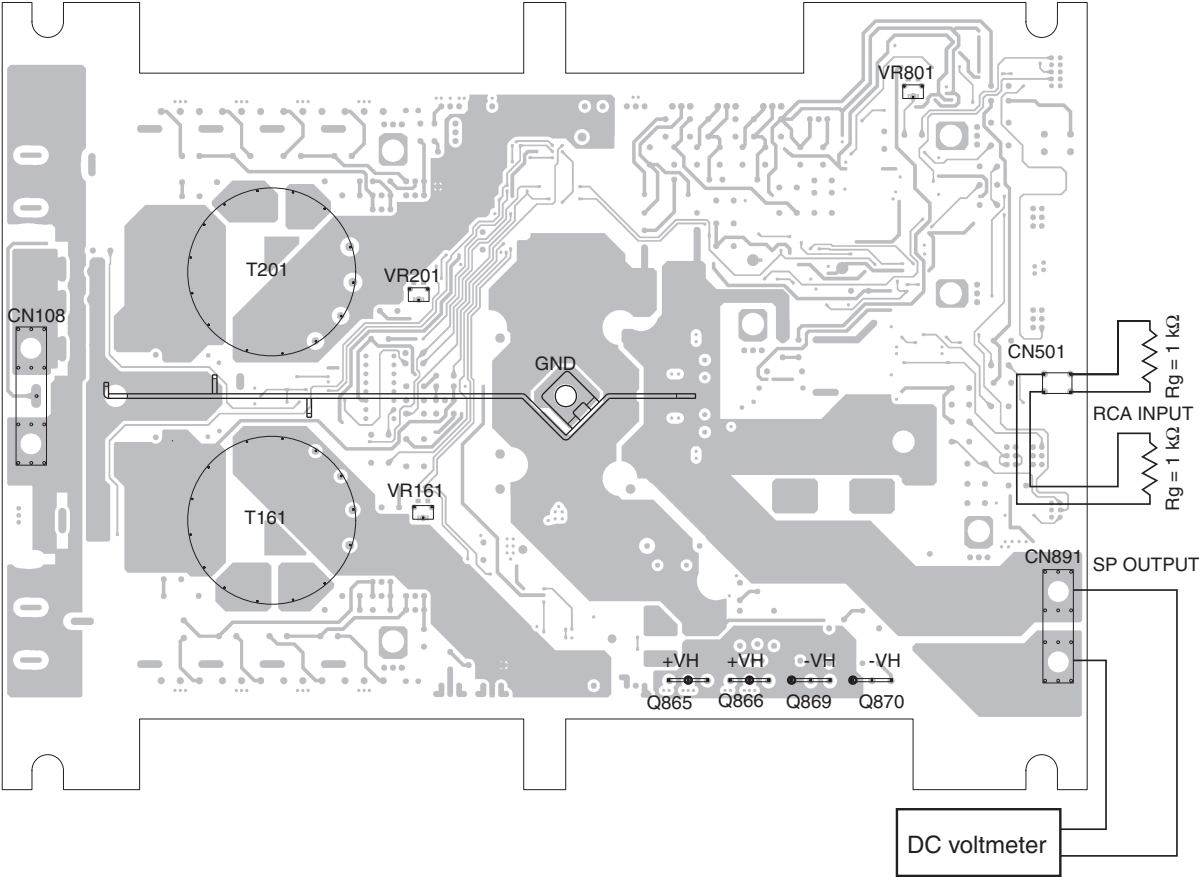
# 8. EACH SETTING AND ADJUSTMENT

## 8.1 ADJUSTMENT



● Adjustment Point

AMP UNIT (SIDE A)



### ● Speaker Output DC Offset Voltage Adjustment

No.	Measurement condition	Measurement point	Adjustment point	Adjustment Method
1	Power on No load, no input R <sub>g</sub> = 1 kΩ	SP OUT	VR801	DC voltmeter : 0 ± 15 mV

### ● VH Voltage Adjustment

No.	Measurement condition	Measurement point	Adjustment point	Adjustment Method
1	Power on No load, no input R <sub>g</sub> = 1 kΩ	GND : Buss Bar on the center of PCB +VH : Drain lead of Q865 or Q866 -VH : Source lead of Q869 or Q870	VR161 : +VH VR201 : -VH	DC voltmeter : ± 85.0 V ± 1 V

### ● Cautions for Voltage Adjustment

Speaker Output DC Offset Voltage Adjustment and VH Voltage Adjustment affect each other.

So, after adjusting either voltage, check the other voltage.

If the voltage is within limits, it is OK.

If the voltage is out of limits, adjust the voltage and check the other voltage again (or repeatedly in some cases).

e.g. Offset → ±VH → Offset → ±VH → Offset

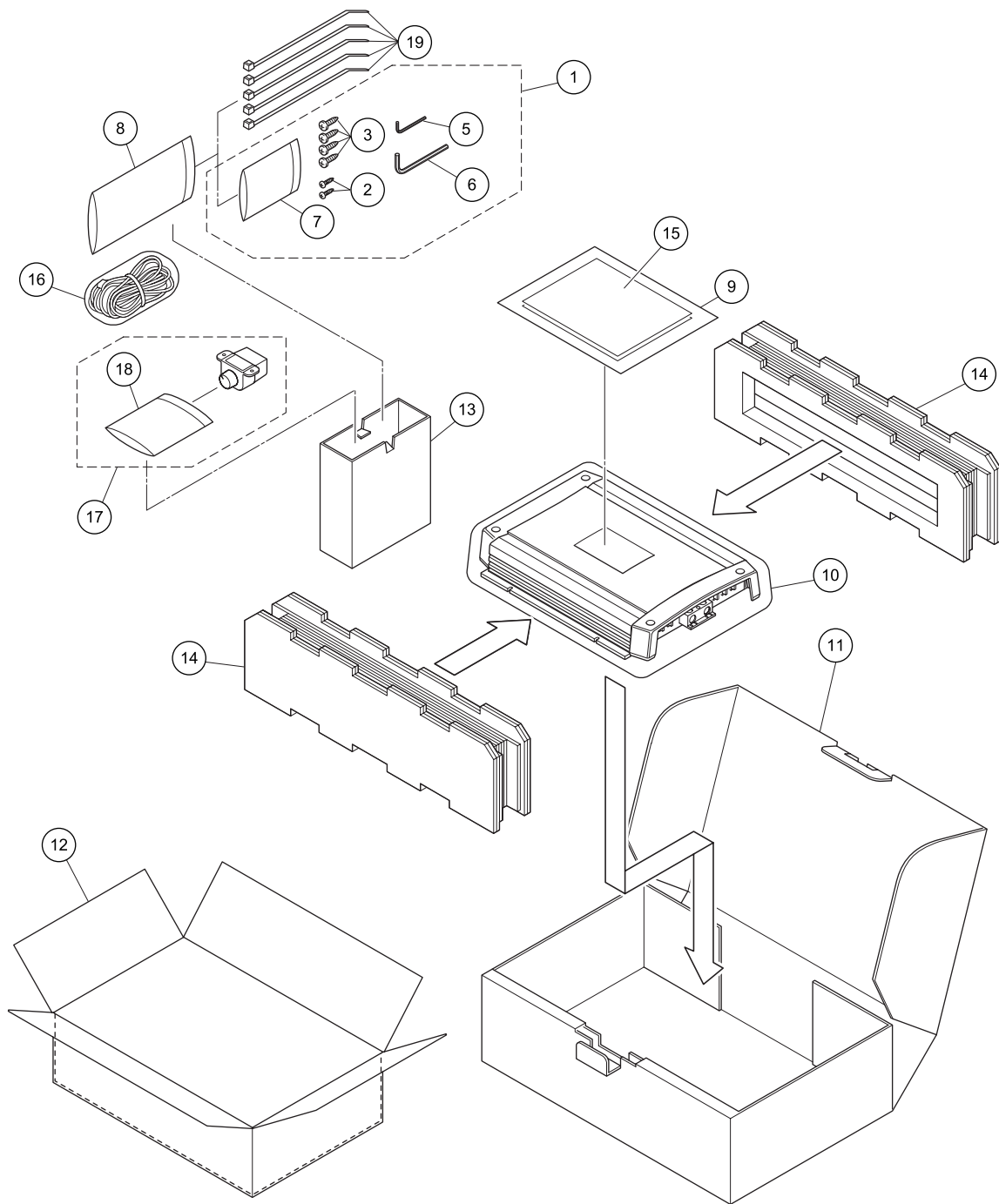
Rough adjustment of VR center is permissible, so check the offset at first and last.

Note: When connecting or adjusting the lead, be careful not to short-circuit it with other portions.

## 9. EXPLODED VIEWS AND PARTS LIST

- NOTES :
- Parts marked by " \* " are generally unavailable because they are not in our Master Spare Parts List.
  - The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
  - Screw adjacent to ▽ mark on the product are used for disassembly.
  - For the applying amount of lubricants or glue, follow the instructions in this manual.  
(In the case of no amount instructions, apply as you think it appropriate.)

### 9.1 PACKING



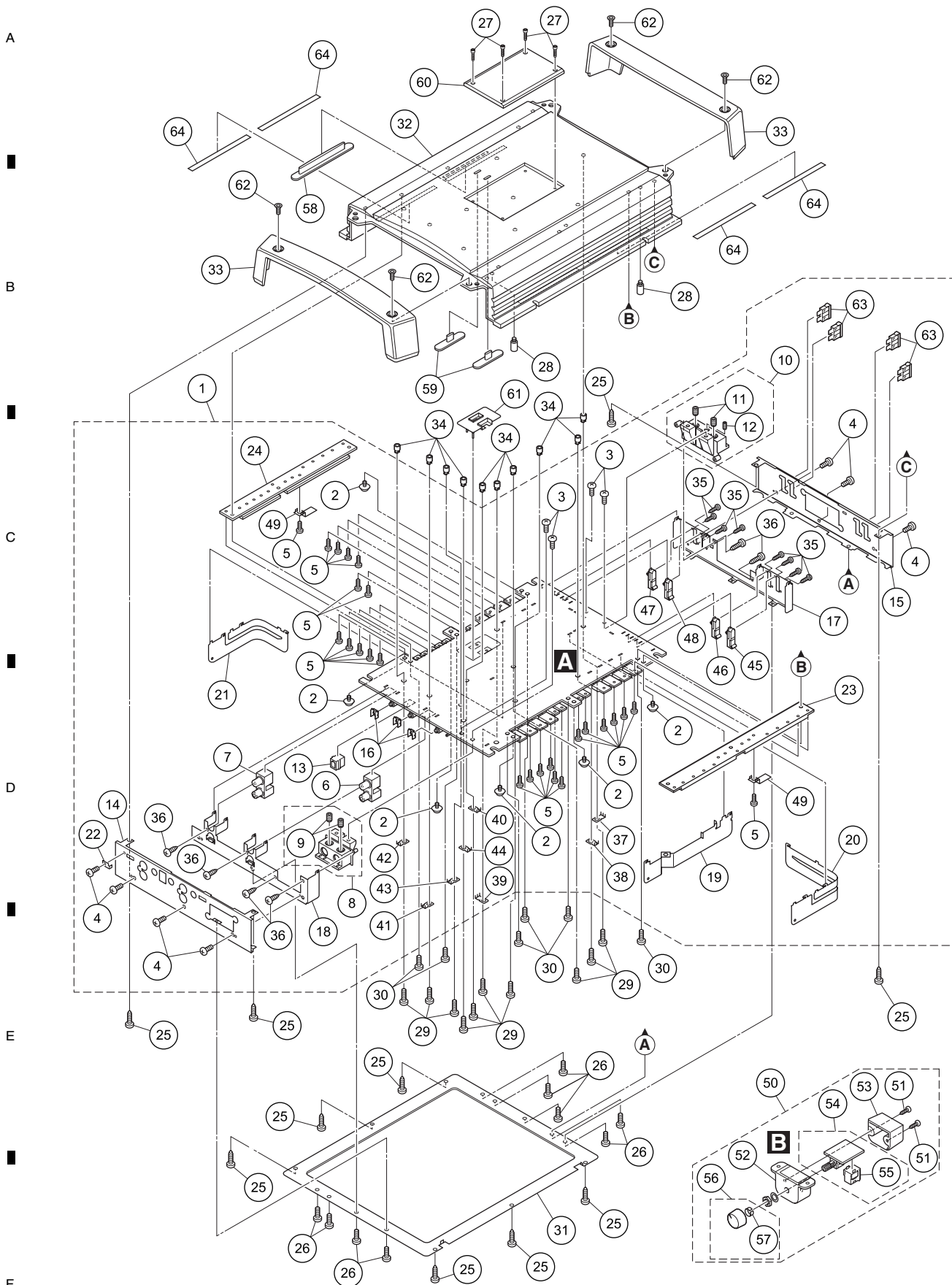
# PACKING SECTION PARTS LIST

<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>	<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>
1	Screw Assy	CEA7772	12	Contain Box(UC)	CHL6198
2	Screw	BYC30P100FTB		Contain Box(EW5)	CHL6199
3	Screw	BYC40P180FTB			
4	.....		13	Protector	CHP3368
5	Shaft	CLP1246	14	Protector	CHP3369
			15-1	Owner's Manual(UC)	CRD4227
6	Shaft	YLP5001		Owner's Manual(EW5)	CRD4226
* 7	Polyethylene Sheet	CNM4338	* 15-2	Warranty Card(UC)	CRY1070
* 8	Polyethylene Bag	CEG-158			
9	Polyethylene Bag	CEG1116	*	Warranty Card(EW5)	CRY1157
10	Polyethylene Bag(UC)	CEG1351	16	Cord Assy	YDP5002
			17	Remote Control Assy	CXC4064
	Polyethylene Bag(EW5)	CEG1317	*	18 Polyethylene Bag	CEG1171
11	Unit Box(UC)	CHG6198	*	19 Lock Tie	CNV-754
	Unit Box(EW5)	CHG6199			

## Owner's Manual,Installation Manual

<b>Part No.</b>	<b>Language</b>
CRD4227	English, French, Spanish
CRD4226	English, Spanish, German, French, Italian, Dutch, Russian

## 9.2 EXTERIOR



<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>	<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>	
1	Amp Unit	CWH1358	34	Spacer	CNV8256	
2	Screw	AMZ30P040FTC	35	Screw	PPZ20P060FTB	A
3	Screw	BBZ30P060FSN				
4	Screw	BSZ30P060FTB	36	Screw	PPZ30P100FTB	
5	Screw(3 x 8)	CBA2011	37	Terminal(CN107)	VNF1084	
			38	Terminal(CN161)	VNF1084	
6	Pin Jack(CN501)	CKB1069	39	Terminal(CN201)	VNF1084	
7	Pin Jack(CN601)	CKB1083	40	Terminal(CN241)	VNF1084	
8	Terminal(CN891)	CKE1061				
9	Screw(M8 x 10)	CBA2059	41	Terminal(CN581)	VNF1084	
10	Terminal(CN108)	CKE1062	42	Terminal(CN681)	VNF1084	
			43	Terminal(CN881)	VNF1084	
11	Screw(M8 x 10)	CBA2059	44	Terminal(CN882)	VNF1084	B
12	Screw(M4 x 14)	CBA2060	45	Fuse Holder(CN102)	YKR5001	
13	Connector(CN561)	CKS4962				
14	Panel	CNB3374	46	Fuse Holder(CN103)	YKR5001	
15	Panel	CNB3399	47	Fuse Holder(CN105)	YKR5001	
			48	Fuse Holder(CN106)	YKR5001	
16	Holder	CND2466	49	Spring	CBL1776	
17	Holder	CND3925	50	Remote Control Assy	CXC4064	
18	Holder	CND3943				
19	Buss Bar	CND3944	51	Screw	BPZ20P100FTB	
20	Buss Bar	CND3945	52	Grille	CNS8140	
			53	Cover	CNS8141	C
21	Buss Bar	CND3946	54	Remote Control Unit	CWM9848	
22	Holder	CND4097	55	Connector(CN1351)	CKS4962	
23	Sub Heat Sink	CNR1910				
24	Sub Heat Sink	CNR1911	56	Knob Unit	CXC4335	
25	Screw	BBZ30P060FTC	57	Spring	CBL1692	
			58	Lighting Conductor Unit	CXC8164	
26	Screw	BSZ30P060FTC	59	Lighting Conductor Unit	CXC8165	
27	Screw(M2.6 x 6)	CBA2115	60	Badge Unit(UC)	CXC8175	
28	Screw(M3 x 5)	CBA1810		Badge Unit(EW5)	CXC8176	
29	Screw(3 x 12)	CBA2012				D
30	Screw(M3 x 10)	CBA2064	61	Holder Unit	CXC8183	
			62	Screw(M6 x 10)	YBA5002	
31	Case	CNB3397	⚠	Fuse(40 A) (FU102, 103, 105, 106)	CEK1332	
32	Heat Sink	CNR1909	64	Spacer	CNN1954	
33	Cover	CNR1915				

The Holder Unit(CXC8183) cannot be used again when removing once.  
Please exchange it for new parts when you remove the Holder Unit from the product.  
Reattachment of the Holder Unit having once peeled off may possibly leak the light from an aperture generated by the weak adhesion of two-sided tape.

# Screws List

A

Mark A on PCB  
AMF30P040FTC  
(3 x 4 Washer Faced Screw)



Mark B on PCB  
BBZ30P100FTB(3 x 10)



Mark C on PCB  
CBA2012(3 x 12)



B

Mark D on PCB  
BBZ30P060FTC(3 x 6)



Case and Heat Sink  
BBZ30P060FTC(3 x 6)



Case, Panel and Holder  
BSZ30P060FTC(3 x 6)

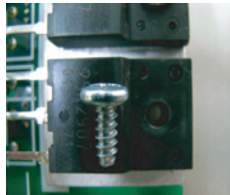


C

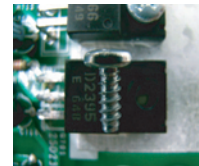
Holder and Panel  
BBZ30P060FTB(3 x 6)



FET  
CBA2011(3 x 8 Tapping Screw)



Thermistor, Transistor  
CBA2011(3 x 8 Tapping Screw)



D

Badge  
CBA2115(M2.6 x 6)



Terminal Cover  
YBA5002(M6 x 10 Flat-head Screw)



E

F

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8

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A

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B

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# 10. SCHEMATIC DIAGRAM

## 10.1 SCHEMATIC DIAGRAM(GUIDE PAGE)

Note: When ordering service parts, be sure to refer to "EXPLODED VIEWS AND PARTS LIST" or "ELECTRICAL PARTS LIST".

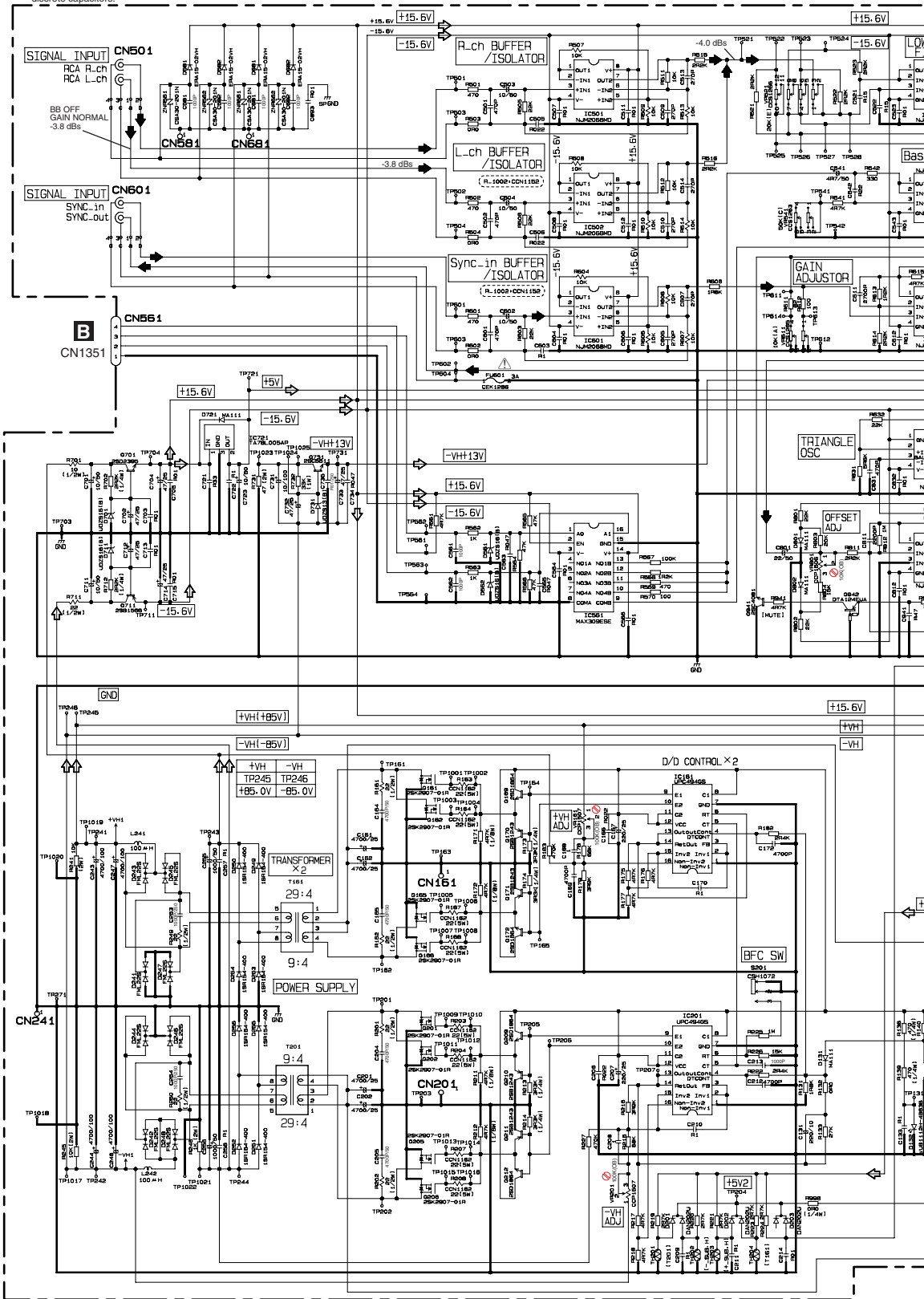
A-a

NOTE :

- Symbol indicates a resistor.  
No differentiation is made between chip resistors and discrete resistors.
- |— Symbol indicates a capacitor.  
No differentiation is made between chip capacitors and discrete capacitors.

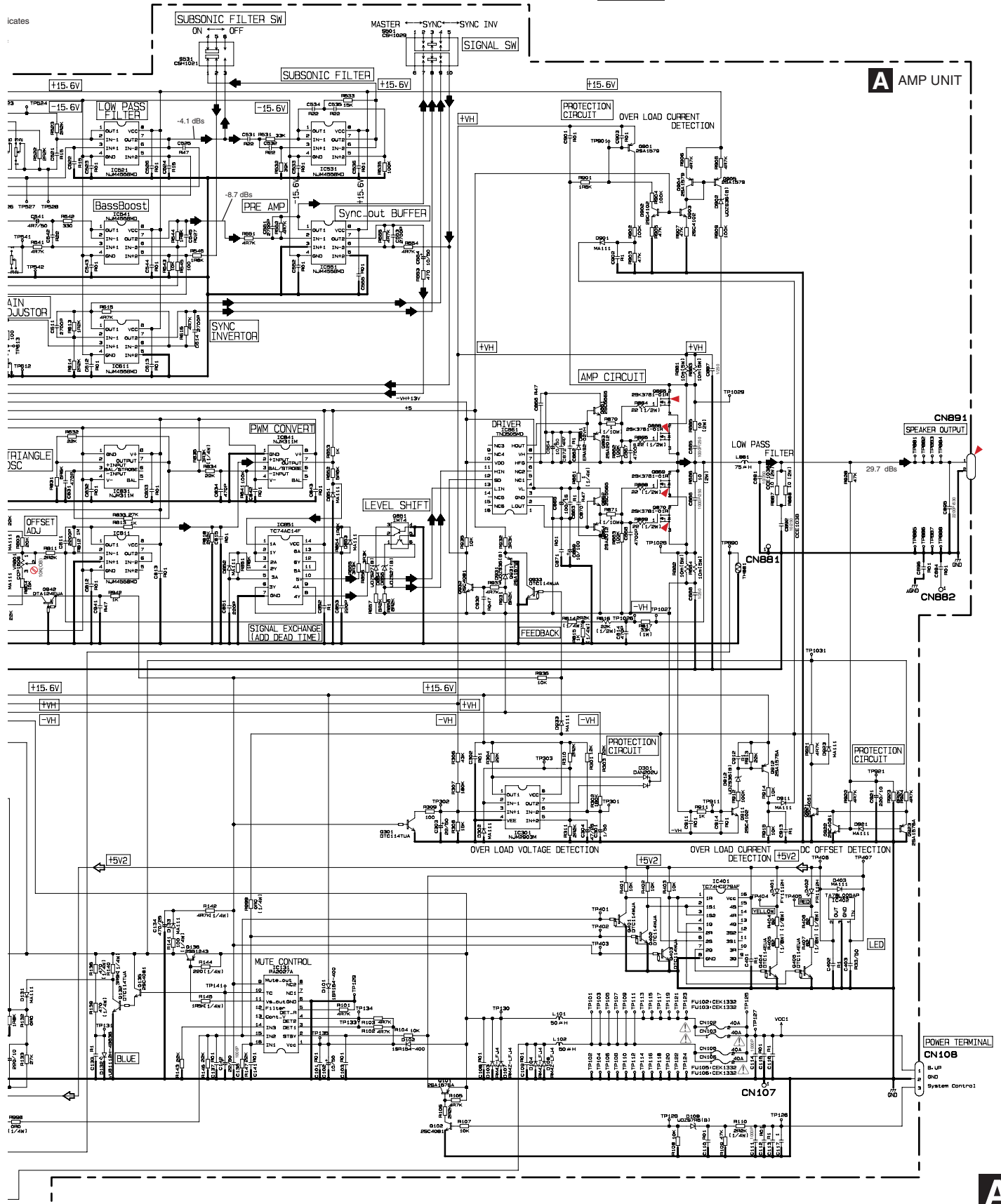
Decimal points for resistor and capacitor fixed values are expressed as :  
2.2 — 2R2  
0.022 — R022

The  $\Delta$  mark found on some component parts indicates the importance of the safety factor of the part.  
Therefore, when replacing, be sure to use parts of identical designation.

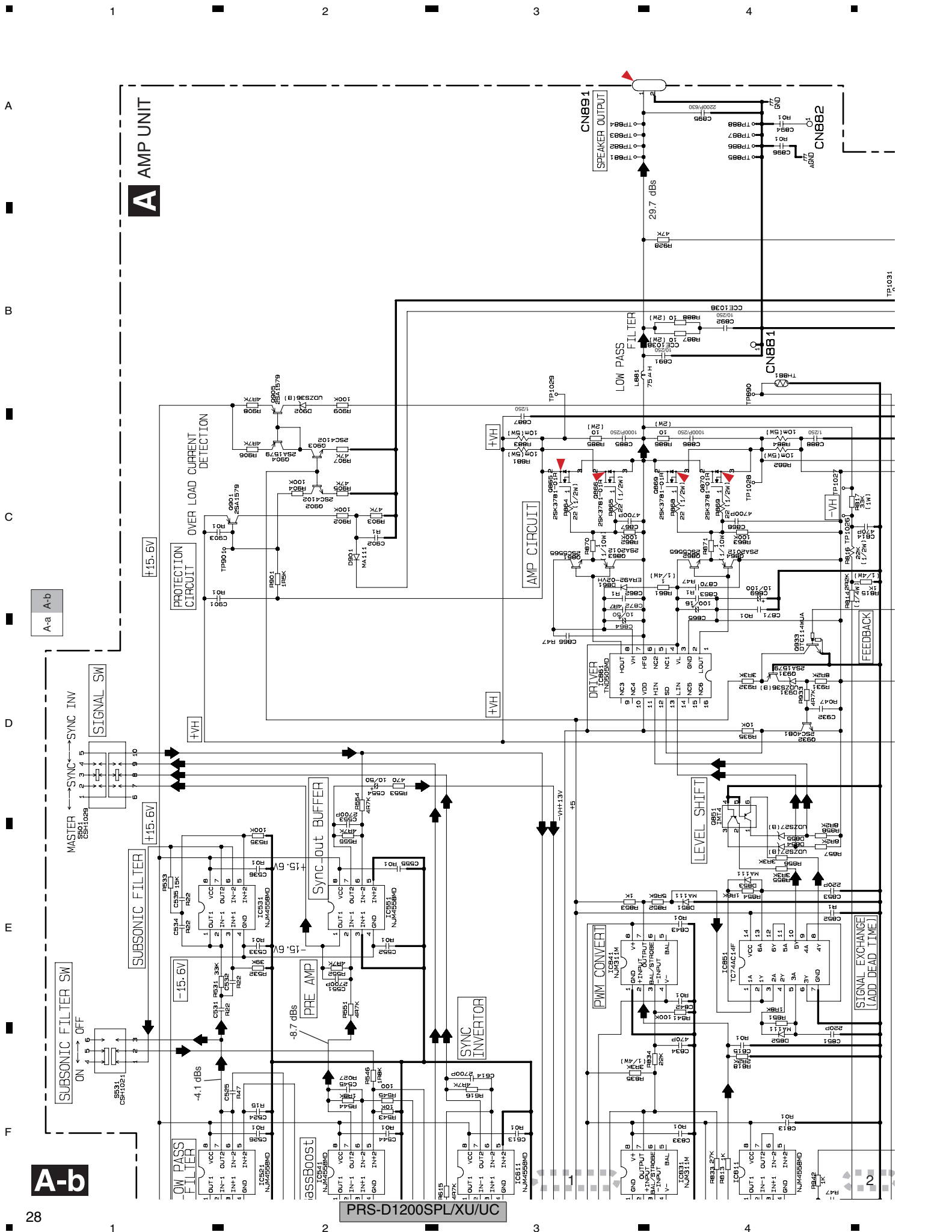


PRS-D1200SPL/XU/UC

A-b



PRS-D1200SPL/XU/UC



A  
B  
C  
D  
E  
F

1 2 3 4 1 2 3 4 1 2 3 4

A-b

A  
AMP UNIT

PRS-D1200SPL/XU/UC



A-b

A B C D E F

A-b

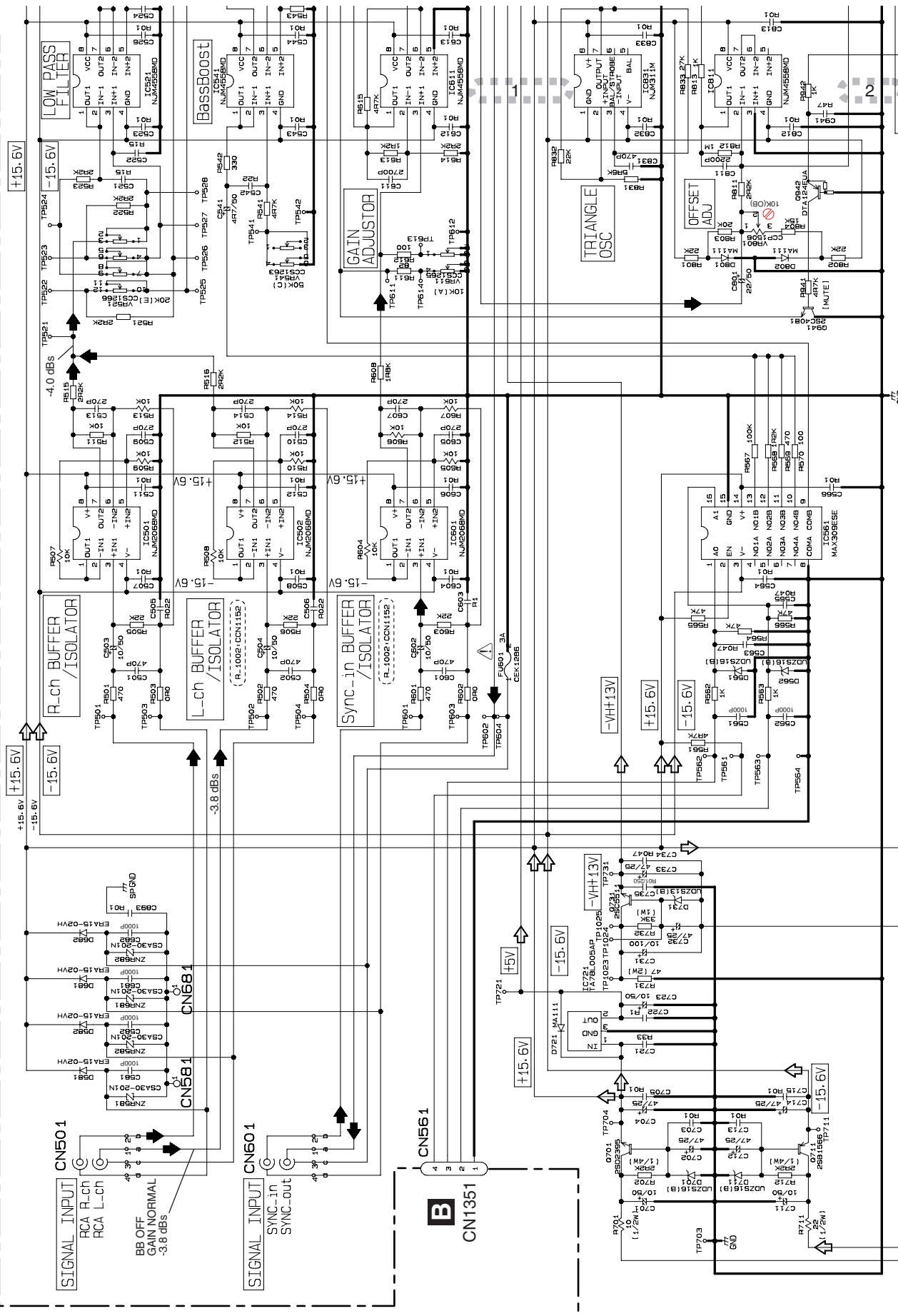
A-a A-b

A-a

NOTE:   
 -R- Symbol indicates a resistor.   
 No differentiation is made between chip resistors and discrete resistors.   
 -C- Symbol indicates a capacitor.   
 No differentiation is made between chip capacitors and discrete capacitors.

Decimal points for resistor and capacitor fixed values are expressed as :   
 2.2 — 2R2   
 0.022 — R022

The  $\Delta$  mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.





## B

## C



## F

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A

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B

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C

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D

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E

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F

■

5

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6

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7

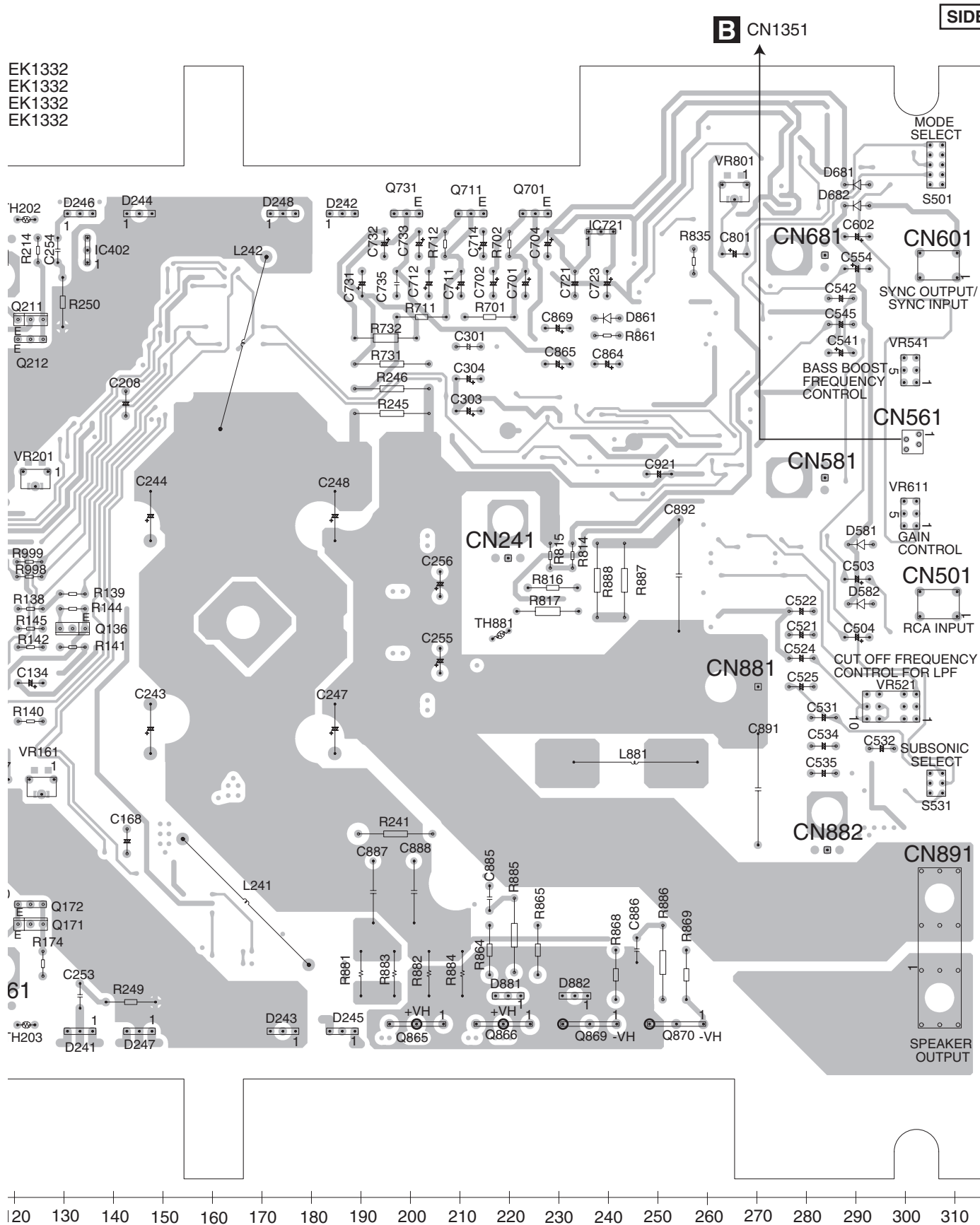
■

8

■



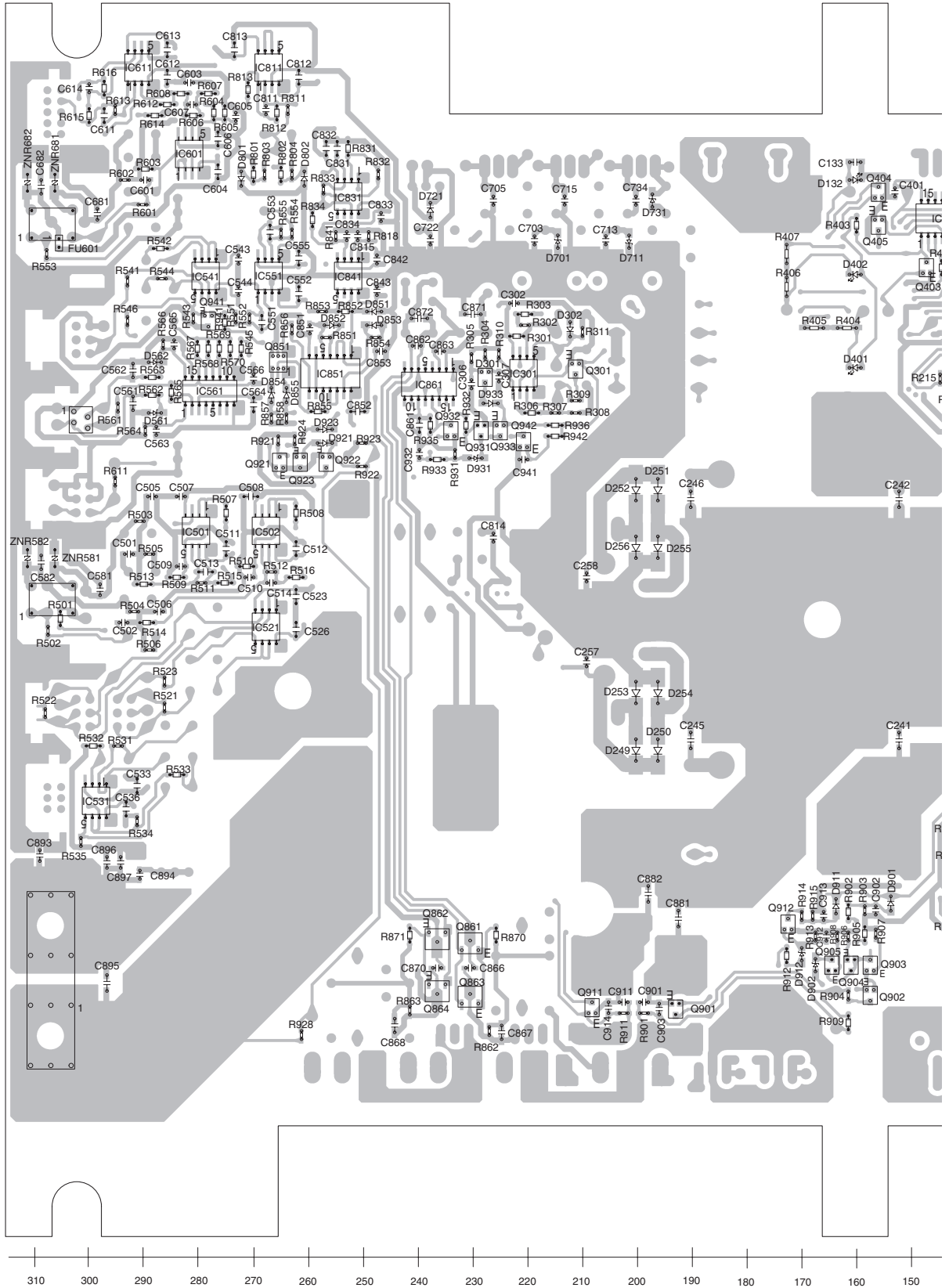
EK1332  
EK1332  
EK1332  
EK1332



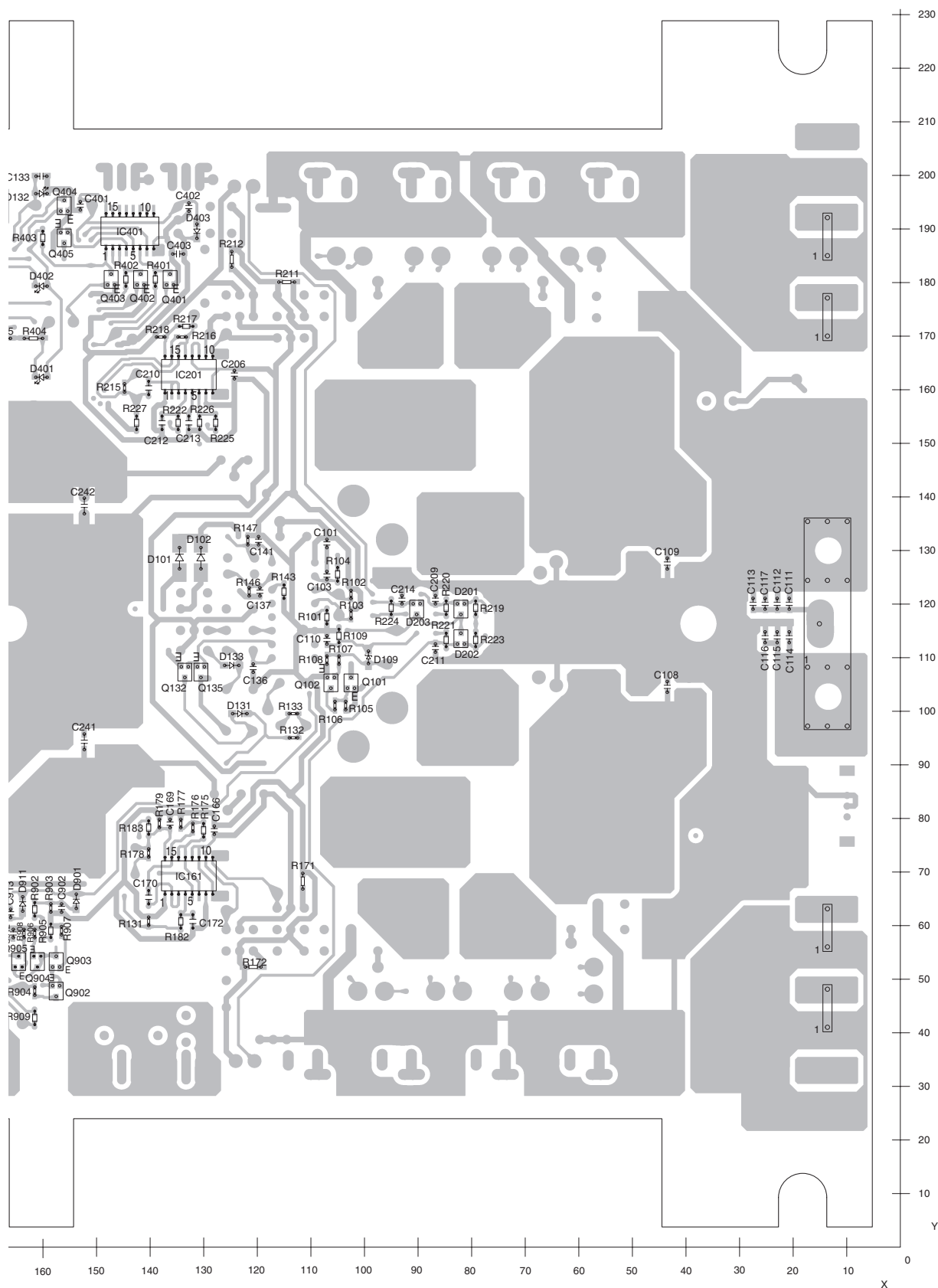
A

# AMP UNIT

⚠ FU 601 (B,306,185) Fuse 3 A CEK1286



SIDE B

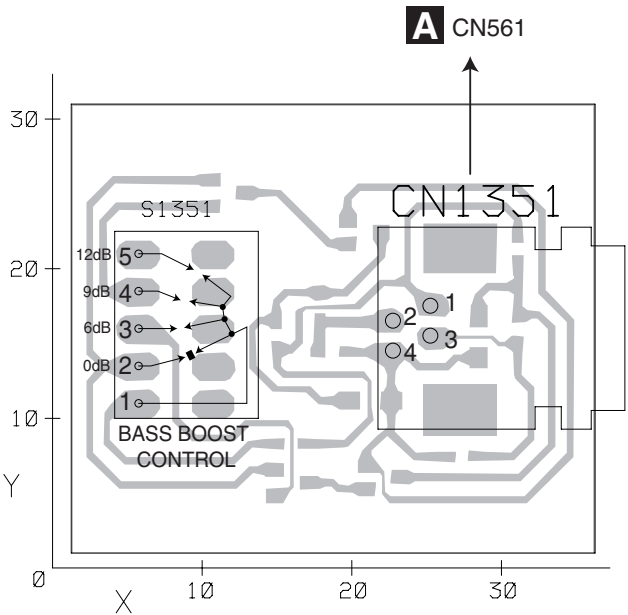


A

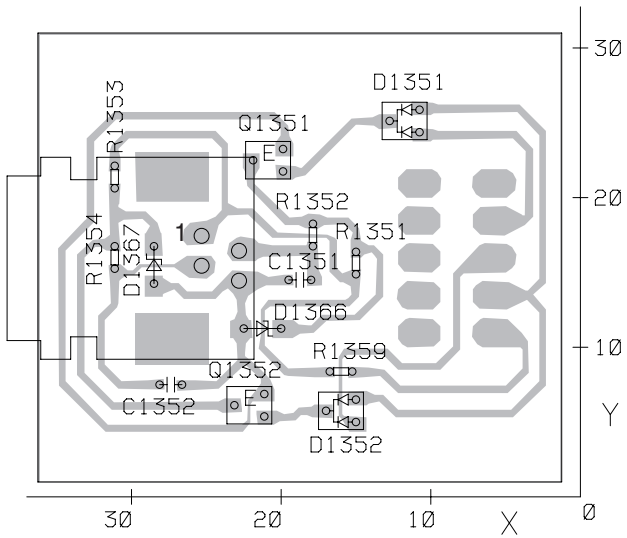
PRS-D1200SPL/XU/UC

11.2 REMOTE CONTROL UNIT

B REMOTE CONTROL UNIT SIDE A



B REMOTE CONTROL UNIT SIDE B



# 12. ELECTRICAL PARTS LIST

## NOTE:

- Parts whose parts numbers are omitted are subject to being not supplied.
- The part numbers shown below indicate chip components.

### Chip Resistor

RS1/○S○○○○J,RS1/○○S○○○○J

### Chip Capacitor (except for CQS.....)

CKS....., CCS....., CSZS.....

- The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- Meaning of the figures and others in the parentheses in the parts list.

Example) IC 301 is on the point (face A, 91 of x-axis, and 111 of y-axis) of the corresponding PC board.

IC 301 (A, 91, 111) IC NJM2068V

**Circuit Symbol and No.**      **Part No.**

**Unit Number : CWH1358**

**Unit Name : Amp Unit**

**Unit Number : CWM9848**

**Unit Name : Remote Control Unit**

**A**

**Unit Number : CWH1358**

**Unit Name : Amp Unit**

## MISCELLANEOUS

IC 131	(A,113,119) IC	PA2027A
IC 161	(B,133,69) IC	UPC494GS
IC 201	(B,133,163) IC	UPC494GS
IC 301	(B,221,161) IC	NJM2903M
IC 401	(B,144,190) IC	TC74HC279AF
IC 402	(A,135,192) IC	TA78L005AP
IC 501	(B,281,133) IC	NJM2068MD
IC 502	(B,268,133) IC	NJM2068MD
IC 521	(B,268,115) IC	NJM4558MD
IC 531	(B,299,83) IC	NJM4558MD
IC 541	(B,279,179) IC	NJM4558MD
IC 551	(B,267,179) IC	NJM4558MD
IC 561	(B,278,158) IC	MAX309ESE
IC 601	(B,282,201) IC	NJM2068MD
IC 611	(B,291,217) IC	NJM4558MD
IC 721	(A,239,195) IC	TA78L005AP
IC 811	(B,267,217) IC	NJM4558MD
IC 831	(B,253,194) COMPARATOR IC	NJM311M
IC 841	(B,253,179) COMPARATOR IC	NJM311M
IC 851	(B,256,161) IC	TC74AC14F
IC 861	(B,238,159) IC	TND505MD
Q 101	(B,103,105) Chip Transistor	2SA1576A
Q 102	(B,106,105) Transistor	2SC4081
Q 132	(B,134,107) Chip Transistor	DTC114TUA
Q 135	(B,131,107) Transistor	2SC4081
Q 136	(A,132,115) Transistor	2SB1243
Q 161	(A,56,34) FET	2SK2907-01R

	<b>Circuit Symbol and No.</b>	<b>Part No.</b>
Q 162	(A,74,34) FET	2SK2907-01R
Q 165	(A,91,34) FET	2SK2907-01R
Q 166	(A,109,34) FET	2SK2907-01R
Q 169	(A,114,63) Transistor	2SD1864
Q 170	(A,114,59) Transistor	2SB1243
Q 171	(A,123,55) Transistor	2SB1243
Q 172	(A,123,59) Transistor	2SD1864
Q 201	(A,56,199) FET	2SK2907-01R
Q 202	(A,74,199) FET	2SK2907-01R
Q 205	(A,91,199) FET	2SK2907-01R
Q 206	(A,109,199) FET	2SK2907-01R
Q 209	(A,114,170) Transistor	2SD1864
Q 210	(A,114,174) Transistor	2SB1243
Q 211	(A,123,178) Transistor	2SB1243
Q 212	(A,123,174) Transistor	2SD1864
Q 301	(B,211,162) Chip Transistor	DTC114TUA
Q 401	(B,136,181) Transistor	DTC114WUA
Q 402	(B,142,181) Transistor	DTC114WUA
Q 403	(B,147,181) Transistor	DTC114WUA
Q 404	(B,156,194) Chip Transistor	DTC114EUA
Q 405	(B,156,188) Chip Transistor	DTC114EUA
Q 701	(A,225,199) Transistor	2SD2395
Q 711	(A,212,200) Transistor	2SB1566
Q 731	(A,199,199) POWER TR	2SC5511
Q 851	(B,266,163) Transistor	IMT4
Q 861	(B,231,58) Transistor	2SC5565
Q 862	(B,237,58) Transistor	2SC5565
Q 863	(B,231,48) Transistor	2SA2012
Q 864	(B,237,48) Transistor	2SA2012
Q 865	(A,201,34) FET	2SK3781-01R
Q 866	(A,219,34) FET	2SK3781-01R
Q 869	(A,236,34) FET	2SK3781-01R
Q 870	(A,254,34) FET	2SK3781-01R
Q 901	(B,193,45) Transistor	2SA1579
Q 902	(B,158,48) Transistor	2SC4102
Q 903	(B,158,53) Transistor	2SC4102
Q 904	(B,161,53) Transistor	2SA1579
Q 905	(B,165,53) Transistor	2SA1579
Q 911	(B,208,46) Transistor	2SC4102
Q 912	(B,173,61) Chip Transistor	2SA1576A
Q 921	(B,265,145) Transistor	2SC4081

	1	2	3	4
	<u>Circuit Symbol and No.</u>	<u>Part No.</u>	<u>Circuit Symbol and No.</u>	<u>Part No.</u>
	Q 922 (B,257,145) Transistor	2SC4081	D 902 (B,168,53) Diode	UDZS36(B)
	Q 923 (B,262,145) Chip Transistor	2SA1576A	D 911 (B,164,64) Diode	MA111
A	Q 931 (B,229,151) Transistor	2SA1579	D 912 (B,170,55) Diode	UDZS36(B)
	Q 932 (B,234,151) Transistor	2SC4081	D 921 (B,257,149) Diode	MA111
	Q 933 (B,225,151) Transistor	DTC114WUA	D 923 (B,257,151) Diode	MA111
	Q 941 (B,278,171) Transistor	2SC4081	D 931 (B,230,146) Diode	UDZS36(B)
	Q 942 (B,221,149) Chip Digital Transistor	DTA124EUA	D 933 (B,227,156) Diode	MA111
	D 101 (B,135,129) Diode	1SR154-400	ZNR581 (B,306,128) Surge Protector	CSA30-201N
	D 102 (B,131,129) Diode	1SR154-400	ZNR582 (B,311,128) Surge Protector	CSA30-201N
	D 103 (A,41,89) Diode	RM4Z-LFJ4	ZNR681 (B,306,196) Surge Protector	CSA30-201N
	D 104 (A,41,152) Diode	RM4Z-LFJ4	ZNR682 (B,311,196) Surge Protector	CSA30-201N
	D 107 (A,41,81) Diode	RM4Z-LFJ4	L 101 (A,39,61) Choke Coil 50 µH	CTH1341
B	D 108 (A,41,144) Diode	RM4Z-LFJ4	L 102 (A,40,172) Choke Coil 50 µH	CTH1341
	D 109 (B,99,110) Diode	UDZS7R5(B)	L 241 (A,167,60) Choke Coil 100 µH	CTH1365
	D 131 (B,123,100) Diode	MA111	L 242 (A,166,173) Choke Coil 100 µH	CTH1365
	D 132 (B,160,197) LED	VUB1112H-4B63B	L 881 (A,233,88) Choke Coil 75 µH	CTH1366
	D 133 (B,125,109) Diode	MA111	T 161 (A,82,81) Transformer	CTT1134
	D 201 (B,82,119) Diode	DAN202U	T 201 (A,82,152) Transformer	CTT1134
	D 202 (B,82,114) Diode	DAN202U	TH201 (A,66,127) Thermistor	CCX1064
	D 203 (B,90,119) Diode	DAN202U	TH202 (A,122,197) Thermistor	CCX1013
	D 241 (A,133,34) Diode	FML22S	TH203 (A,122,35) Thermistor	CCX1013
	D 242 (A,186,199) Diode	FML22S	TH204 (A,66,106) Thermistor	CCX1064
C	D 243 (A,174,34) Diode	FML22S	TH881 (A,218,114) Thermistor	CCX1064
	D 244 (A,145,199) Diode	FML22S	S 201 (A,10,82) Slide Switch(BFC)	CSH1072
	D 245 (A,186,34) Diode	FML22S	S 501 (A,306,209) Switch(MODE SELECT)	CSH1029
	D 246 (A,133,199) Diode	FML22S	S 531 (A,306,84) Switch(SUBSONIC SELECT)	CSH1021
	D 247 (A,145,34) Diode	FML22S	VR161 (A,126,85) Semi-fixed 100 kΩ(OB)	CCP1507
	D 248 (A,174,199) Diode	FML22S	VR201 (A,124,147) Semi-fixed 100 kΩ(OB)	CCP1507
	D 249 (B,200,93) Diode	1SR154-400	VR521 (A,302,99) Variable Resistor 20 kΩ(E)	CCS1266
	D 250 (B,196,93) Diode	1SR154-400	VR541 (A,302,167) Volume 50 kΩ(C)	CCS1263
	D 251 (B,196,140) Diode	1SR154-400	VR611 (A,302,138) Variable Resistor 10 kΩ(A)	CCS1265
	D 252 (B,200,140) Diode	1SR154-400	VR801 (A,266,205) Semi-fixed 10 kΩ(OB)	CCP1506
D	D 253 (B,200,103) Diode	1SR154-400	△FU102 (A,13,44)Fuse 40 A	CEK1332
	D 254 (B,196,103) Diode	1SR154-400	△FU103 (A,13,59)Fuse 40 A	CEK1332
	D 255 (B,196,130) Diode	1SR154-400	△FU105 (A,13,188)Fuse 40 A	CEK1332
	D 256 (B,200,130) Diode	1SR154-400	△FU106 (A,13,173)Fuse 40 A	CEK1332
	D 301 (B,228,161) Diode	DAN202U	△FU601 (B,306,185) Fuse 3 A	CEK1286
	D 302 (B,212,169) Diode	MA111	<b>RESISTORS</b>	
	D 401 (B,160,162) LED	FY1112H	R 101 (B,107,118)	RS1/16S472J
	D 402 (B,160,179) LED	FR1112H	R 102 (B,103,122)	RS1/16S472J
	D 403 (B,131,190) Diode	MA111	R 103 (B,103,118)	RS1/16S472J
	D 561 (B,288,154) Diode	UDZS16(B)	R 104 (B,105,126)	RS1/16S103J
	D 562 (B,288,163) Diode	UDZS16(B)	R 105 (B,104,101)	RS1/16S472J
	D 581 (A,291,132) Diode	ERA15-02VH		
	D 582 (A,291,120) Diode	ERA15-02VH		
E	D 681 (A,290,205) Diode	ERA15-02VH	R 106 (B,106,101)	RS1/16S222J
	D 682 (A,290,201) Diode	ERA15-02VH	R 107 (B,105,110)	RS1/16S103J
	D 701 (B,215,185) Diode	UDZS16(B)	R 108 (B,107,110)	RS1/16S103J
	D 711 (B,202,185) Diode	UDZS16(B)	R 109 (B,105,114)	RS1/16S473J
	D 721 (B,238,191) Diode	MA111	R 110 (A,34,158)	RD1/4PU222J
	D 731 (B,197,193) Diode	UDZS13(B)		
	D 801 (B,272,197) Diode	MA111	R 131 (B,140,61)	RS1/16S182J
	D 802 (B,261,197) Diode	MA111	R 132 (B,113,95)	RS1/16S0R0J
	D 851 (B,248,173) Diode	MA111	R 133 (B,113,100)	RS1/16S273J
	D 852 (B,256,170) Diode	MA111	R 138 (A,123,119)	RD1/4PU471J
	D 853 (B,248,170) Diode	MA111	R 139 (A,132,122)	RD1/4PU471J
F	D 854 (B,267,157) Diode	UDZS27(B)	R 140 (A,123,96)	RD1/4PU392J
	D 855 (B,264,157) Diode	UDZS27(B)	R 141 (A,132,111)	RD1/4PU101J
	D 861 (A,240,178) Diode	ERA92-02VH	R 142 (A,123,111)	RD1/4PU472J
	D 901 (B,154,65) Diode	MA111	R 143 (B,115,122)	RS1/16S223J
			R 144 (A,132,119)	RD1/4PU221J

5		6		7		8	
<u>Circuit Symbol and No.</u>		<u>Part No.</u>		<u>Circuit Symbol and No.</u>		<u>Part No.</u>	
R 145	(A,123,115)	RD1/4PU152J		R 403	(B,160,188)	RS1/16S103J	
R 146	(B,122,122)	RS1/16S223J		R 404	(B,162,170)	RS1/8S820J	
R 147	(B,122,132)	RS1/16S223J		R 405	(B,168,170)	RS1/8S820J	A
R 161	(A,57,59)	RS1/2PMF220J		R 406	(B,173,177)	RS1/8S820J	
R 162	(A,103,55)	RS1/2PMF220J		R 407	(B,173,183)	RS1/8S820J	
R 163	(A,57,50) 22 Ω	CCN1162		R 501	(B,305,117)	RS1/16S471J	
R 164	(A,70,48) 22 Ω	CCN1162		R 502	(B,308,114)	RS1/16S471J	
R 167	(A,84,48) 22 Ω	CCN1162		R 503	(B,291,134)	RS1/16S0R0J	
R 168	(A,99,48) 22 Ω	CCN1162		R 504	(B,292,118)	RS1/16S0R0J	
R 171	(B,112,68)	RS1/8S472J		R 505	(B,289,128)	RS1/16S223J	
R 172	(B,121,52)	RS1/8S472J		R 506	(B,289,111)	RS1/16S223J	
R 173	(A,114,55)	RD1/4PU332J		R 507	(B,275,136) 10 kΩ	CCN1152	
R 174	(A,126,47)	RD1/4PU332J		R 508	(B,262,136) 10 kΩ	CCN1152	
R 175	(B,130,78)	RS1/16S472J		R 509	(B,284,124) 10 kΩ	CCN1152	B
R 176	(B,132,78)	RS1/16S472J		R 510	(B,271,126) 10 kΩ	CCN1152	
R 177	(B,134,79)	RS1/16S472J		R 511	(B,280,123) 10 kΩ	CCN1152	
R 178	(B,140,74)	RS1/16S683J		R 512	(B,267,125) 10 kΩ	CCN1152	
R 179	(B,138,79)	RS1/16S392J		R 513	(B,290,123) 10 kΩ	CCN1152	
R 182	(B,134,61)	RS1/16S242J		R 514	(B,290,116) 10 kΩ	CCN1152	
R 183	(B,140,78)	RS1/16S474J		R 515	(B,275,123)	RS1/16S222J	
R 201	(A,62,177)	RS1/2PMF220J		R 516	(B,262,124)	RS1/16S222J	
R 202	(A,103,178)	RS1/2PMF220J		R 521	(B,286,100)	RS1/16S222J	
R 203	(A,59,185) 22 Ω	CCN1162		R 522	(B,308,99)	RS1/16S222J	
R 204	(A,74,185) 22 Ω	CCN1162		R 523	(B,286,105)	RS1/16S222J	
R 207	(A,88,185) 22 Ω	CCN1162		R 531	(B,295,93)	RS1/16S333J	C
R 208	(A,103,185) 22 Ω	CCN1162		R 532	(B,299,93)	RS1/16S393J	
R 211	(B,115,180)	RS1/8S472J		R 533	(B,284,88)	RS1/16S153J	
R 212	(B,125,184)	RS1/8S472J		R 535	(B,302,76)	RS1/16S104J	
R 213	(A,114,178)	RD1/4PU332J		R 541	(B,293,178)	RS1/16S472J	
R 214	(A,125,192)	RD1/4PU332J		R 542	(B,287,184)	RS1/16S331J	
R 215	(B,145,160)	RS1/16S683J		R 543	(B,281,171)	RS1/16S103J	
R 216	(B,134,170)	RS1/16S392J		R 544	(B,287,179)	RS1/16S182J	
R 217	(B,133,172)	RS1/16S472J		R 545	(B,272,166)	RS1/16S101J	
R 218	(B,138,170)	RS1/16S472J		R 546	(B,293,171)	RS1/16S182J	
R 219	(B,79,119)	RS1/16S272J		R 551	(B,273,171)	RS1/16S472J	
R 220	(B,85,119)	RS1/16S272J		R 552	(B,271,171)	RS1/16S472J	D
R 221	(B,85,113)	RS1/16S272J		R 553	(B,308,183)	RS1/16S471J	
R 222	(B,135,154)	RS1/16S242J		R 554	(B,263,187)	RS1/16S472J	
R 223	(B,79,113)	RS1/16S272J		R 555	(B,265,187)	RS1/16S472J	
R 224	(B,95,119)	RS1/16S272J		R 561	(B,295,155)	RS1/16S472J	
R 225	(B,128,154)	RS1/16S105J		R 562	(B,289,157)	RS1/16S102J	
R 226	(B,131,154)	RS1/16S153J		R 563	(B,289,161)	RS1/16S102J	
R 227	(B,143,154)	RS1/16S474J		R 564	(B,290,151)	RS1/16S473J	
R 241	(A,197,74)	RS2PMF103J		R 565	(B,285,158)	RS1/16S473J	
R 245	(A,196,159)	RS2PMF103J		R 566	(B,287,167)	RS1/16S473J	
R 246	(A,196,164)	RS2PMF102J		R 567	(B,280,166)	RS1/16S104J	E
R 249	(A,144,40)	RS1/2PMF220J		R 568	(B,278,166)	RS1/16S122J	
R 250	(A,130,181)	RS1/2PMF220J		R 569	(B,276,166)	RS1/16S471J	
R 301	(B,222,168)	RS1/16S1202F		R 570	(B,274,166)	RS1/16S101J	
R 302	(B,221,170)	RS1/16S1803F		R 601	(B,290,192)	RS1/16S471J	
R 303	(B,221,172)	RS1/16S2202F		R 602	(B,294,197)	RS1/16S0R0J	
R 304	(B,228,165)	RS1/16S223J		R 603	(B,290,199)	RS1/16S223J	
R 306	(B,219,154)	RS1/16S4302F		R 604	(B,277,209) 10 kΩ	CCN1152	
R 307	(B,215,154)	RS1/16S1803F		R 605	(B,275,209) 10 kΩ	CCN1152	
R 308	(B,211,154)	RS1/16S1502F		R 606	(B,281,208) 10 kΩ	CCN1152	
R 309	(B,211,156)	RS1/16S101J		R 607	(B,278,212) 10 kΩ	CCN1152	
R 310	(B,225,165)	RS1/16S2201F		R 608	(B,283,212)	RS1/16S182J	F
R 311	(B,210,169)	RS1/16S2201F		R 611	(B,295,142)	RS1/16S820J	
R 401	(B,139,181)	RS1/16S103J		R 612	(B,286,210)	RS1/16S101J	
R 402	(B,145,181)	RS1/16S103J		R 613	(B,295,209)	RS1/16S122J	

	1		2		3		4
	<u>Circuit Symbol and No.</u>		<u>Part No.</u>		<u>Circuit Symbol and No.</u>		<u>Part No.</u>
A	R 614	(B,288,208)	RS1/16S222J		R 909	(B,162,43)	RS1/16S104J
	R 615	(B,300,208)	RS1/16S472J		R 911	(B,203,45)	RS1/16S102J
	R 616	(B,297,213)	RS1/16S472J		R 912	(B,173,55)	RS1/16S104J
	R 701	(A,216,178)	RS1/2PMF100J		R 913	(B,168,59)	RS1/16S223J
	R 702	(A,220,193)	RD1/4PU222J		R 914	(B,170,62)	RS1/16S103J
■	R 711	(A,202,178)	RS1/2PMF220J		R 915	(B,168,62)	RS1/16S103J
	R 712	(A,207,193)	RD1/4PU222J		R 921	(B,266,149)	RS1/16S472J
	R 731	(A,196,169)	RS2PMF470J		R 922	(B,250,144)	RS1/16S472J
	R 732	(A,195,174)	RS1PMF333J		R 923	(B,250,149)	RS1/16S822J
	R 801	(B,270,198)	RS1/16S223J		R 924	(B,263,149)	RS1/16S472J
B	R 802	(B,265,198)	RS1/16S223J		R 928	(B,261,41)	RS1/16S473J
	R 803	(B,268,198)	RS1/16S203J		R 931	(B,233,147)	RS1/16S822J
	R 804	(B,263,198)	RS1/16S153J		R 932	(B,231,152)	RS1/16S332J
	R 811	(B,264,209)	RS1/16S222J		R 933	(B,237,146)	RS1/16S472J
	R 812	(B,266,209)	RS1/16S105J		R 935	(B,238,152)	RS1/16S103J
■	R 813	(B,271,213)	RS1/16S102J		R 936	(B,215,152)	RS1/16S103J
	R 814	(A,233,130)	RD1/4PU222J		R 941	(B,275,171)	RS1/16S472J
	R 815	(A,228,130)	RD1/4PU102J		R 942	(B,215,150)	RS1/16S102J
	R 816	(A,229,123)	RS1/2PMF223J		R 998	(A,123,126)	RD1/4PU0R0J
	R 817	(A,228,119)	RS1PMF333J		R 999	(A,123,129)	RD1/4PU0R0J
C	R 818	(B,249,186)	RS1/16S222J		<b>CAPACITORS</b>		
	R 831	(B,253,202)	RS1/16S562J		C 101	(B,107,131)	CKSRYB103K50
	R 832	(B,247,198)	RS1/16S223J		C 102	(A,113,133)	CEAT100M50
	R 833	(B,257,195)	RS1/16S273J		C 103	(B,107,125)	CKSRYB103K50
	R 834	(B,259,189)	RS1/16S223J		C 108	(B,44,105)	CKSQYB103K50
■	R 835	(A,257,189)	RD1/4PU332J		C 109	(B,44,128)	CKSQYB103K50
	R 841	(B,255,186)	RS1/16S104J				
	R 851	(B,257,168)	RS1/16S182J		C 110	(B,107,113)	CKSRYB103K50
	R 852	(B,253,173)	RS1/16S562J		C 111	(B,21,120)	CKSQYB102K50
	R 853	(B,258,173)	RS1/16S102J		C 112	(B,23,120)	CKSQYB103K50
D	R 854	(B,248,168)	RS1/16S182J		C 113	(B,28,120)	CKSQYB104K50
	R 855	(B,258,154)	RS1/16S332J		C 114	(B,21,114)	CKSQYB102K50
	R 856	(B,263,169)	RS1/16S332J				
	R 857	(B,267,153)	RS1/16S822J		C 115	(B,23,114)	CKSQYB103K50
	R 858	(B,264,153)	RS1/16S822J		C 116	(B,25,114)	CKSQYB104K50
■	R 861	(A,240,174)	RD1/4PU1R0J		C 117	(B,25,120)	CKSQYB105K25
	R 862	(B,227,41)	RS1/16S104J		C 131	(A,113,97)	CEANP221M10
	R 863	(B,242,45)	RS1/16S104J		C 133	(B,160,200)	CKSQYB104K50
	R 864	(A,216,50)	RS1/2PMF220J				
	R 865	(A,226,50)	RS1/2PMF220J		C 134	(A,123,104)	CEAT471M25
■	R 868	(A,242,45)	RS1/2PMF220J		C 136	(B,121,108)	CKSRYB102K50
	R 869	(A,256,45)	RS1/2PMF220J		C 137	(B,120,122)	CKSRYB103K50
	R 870	(B,226,59)	RS1/10SR1R0J		C 141	(B,120,132)	CKSRYB103K50
	R 871	(B,242,59)	RS1/10SR1R0J		C 142	(A,113,105)	CEAT220M50
	R 881	(A,190,45) 0.01 Ω	CCN1158				
E	R 882	(A,204,45) 0.01 Ω	CCN1158		C 161	(A,35,102) 4 700 μF/25 V	CCH1738(P45)
	R 883	(A,197,45) 0.01 Ω	CCN1158		C 162	(A,53,105) 4 700 μF/25 V	CCH1738(P45)
	R 884	(A,211,45) 0.01 Ω	CCN1158		C 164	(A,54,64)	CQMA472J50
	R 885	(A,221,53)	RS2PMF100J		C 165	(A,105,59)	CQMA472J50
	R 886	(A,251,48)	RS2PMF100J		C 166	(B,128,78)	CKSRYB223K50
■	R 887	(A,243,125)	RS2PMF100J		C 167	(A,116,85)	CEAT221M25
	R 888	(A,238,125)	RS2PMF100J		C 168	(A,143,72)	CFTNA105J50
	R 901	(B,199,45)	RS1/16S152J		C 169	(B,136,79)	CKSRYB472K50
	R 902	(B,162,63)	RS1/16S104J		C 170	(B,140,65)	CKSRYB104K50
	R 903	(B,159,63)	RS1/16S473J		C 172	(B,132,61)	CKSRYB472K50
F	R 904	(B,162,48)	RS1/16S104J				
	R 905	(B,159,59)	RS1/16S473J		C 201	(A,35,131) 4 700 μF/25 V	CCH1738(P45)
	R 906	(B,162,59)	RS1/16S472J		C 202	(A,53,128) 4 700 μF/25 V	CCH1738(P45)
	R 907	(B,157,59)	RS1/16S473J		C 204	(A,59,173)	CQMA472J50
	R 908	(B,164,59)	RS1/16S472J		C 205	(A,105,174)	CQMA472J50
					C 206	(B,124,163)	CKSRYB223K50
					C 207	(A,116,141)	CEAT221M25

5		6		7		8	
<u>Circuit Symbol and No.</u>		<u>Part No.</u>		<u>Circuit Symbol and No.</u>		<u>Part No.</u>	
C 208	(A,143,161)	CFTNA105J50		C 561	(B,292,156)	CKSQYB102K50	
C 209	(B,87,121)	CKSRYB104K50		C 562	(B,292,162)	CKSQYB102K50	
C 210	(B,140,160)	CKSRYB104K50		C 563	(B,288,151)	CKSRYB473K50	
C 211	(B,87,112)	CKSRYB104K50		C 564	(B,270,156)	CKSRYB103K50	A
C 212	(B,138,154)	CKSRYB472K50		C 565	(B,285,167)	CKSRYB473K50	
C 213	(B,133,154)	CKSRYB102K50		C 566	(B,270,160)	CKSRYB103K50	
C 214	(B,93,121)	CKSRYB103K50		C 581	(B,298,122)	CKSQYB102K50	
C 243	(A,148,95) 4 700 $\mu$ F/100 V	CCH1737		C 582	(B,309,127)	CKSQYB102K50	
C 244	(A,148,138) 4 700 $\mu$ F/100 V	CCH1737		C 601	(B,290,197)	CCSRCH471J50	
C 247	(A,185,95) 4 700 $\mu$ F/100 V	CCH1737		C 602	(A,290,194)	CEAT100M50	
C 248	(A,185,138) 4 700 $\mu$ F/100 V	CCH1737		C 603	(B,282,214)	CKSRYB104K50	
C 253	(A,133,41)	CQMA102K2E		C 604	(B,277,198)	CKSRYB103K50	
C 254	(A,129,192)	CQMA102K2E		C 605	(B,273,208)	CCSRCH271J50	
C 255	(A,206,109)	CEAT102M50(P35)		C 606	(B,277,204)	CKSRYB103K50	
C 256	(A,206,124)	CEAT102M50(P35)		C 607	(B,281,210)	CCSRCH271J50	B
C 257	(B,209,109)	CKSRYB104K50		C 611	(B,297,208)	CKSRYB272K50	
C 258	(B,209,124)	CKSRYB104K50		C 612	(B,286,215)	CKSRYB103K50	
C 301	(A,212,172)	CEANP1R0M50		C 613	(B,286,220)	CKSRYB103K50	
C 302	(B,223,174)	CKSRYB103K50		C 614	(B,300,213)	CKSRYB272K50	
C 303	(A,212,159)	CEAT220M50		C 681	(B,299,190)	CKSQYB102K50	
C 304	(A,212,166)	CEAT470M25		C 682	(B,309,195)	CKSQYB102K50	
C 401	(B,153,194)	CKSRYB104K50		C 701	(A,223,185)	CEAT100M50	
C 402	(B,133,194)	CKSRYB104K50		C 702	(A,217,185)	CEAT470M25	
C 403	(B,135,185)	CKSQYB334K50		C 703	(B,219,186)	CKSRYB103K50	
C 501	(B,293,128)	CCSRCH471J50		C 704	(A,228,193)	CEAT470M25	C
C 502	(B,294,116)	CCSRCH471J50		C 705	(B,226,193)	CKSRYB103K50	
C 503	(A,290,125)	CEAT100M50		C 711	(A,210,185)	CEAT100M50	
C 504	(A,290,113)	CEAT100M50		C 712	(A,204,185)	CEAT470M25	
C 505	(B,289,139)	CKSRYB223K50		C 713	(B,206,186)	CKSRYB103K50	
C 506	(B,287,118)	CKSRYB223K50		C 714	(A,215,193)	CEAT470M25	
C 507	(B,283,139)	CKSRYB103K50		C 715	(B,213,193)	CKSRYB103K50	
C 508	(B,271,139)	CKSRYB103K50		C 721	(A,233,185)	CFTNA334J50	
C 509	(B,283,126)	CCSRCH271J50		C 722	(B,238,186)	CKSRYB104K50	
C 510	(B,271,124)	CCSRCH271J50		C 723	(A,240,185)	CEAT100M50	
C 511	(B,275,129)	CKSRYB103K50		C 731	(A,190,185)	CEAT100M2A	
C 512	(B,262,129)	CKSRYB103K50		C 732	(A,195,193)	CEAT470M25	D
C 513	(B,279,125)	CCSRCH271J50		C 733	(A,202,193)	CEAT470M25	
C 514	(B,267,123)	CCSRCH271J50		C 734	(B,200,193)	CKSRYB473K50	
C 521	(A,279,114)	CFTNA154J50		C 735	(A,197,185)	CQMA103K2E	
C 522	(A,279,119)	CFTNA154J50		C 801	(A,266,191)	CEAT220M50	
C 523	(B,262,121)	CKSRYB103K50		C 811	(B,268,209)	CKSRYB222K50	
C 524	(A,279,109)	CFTNA154J50		C 812	(B,262,215)	CKSRYB103K50	
C 525	(A,279,103)	CFTNA474J50		C 813	(B,274,220)	CKSRYB103K50	
C 526	(B,262,115)	CKSRYB103K50		C 814	(B,226,131)	CCSRCH471J50	
C 531	(A,284,97)	CFTNA224J50		C 815	(B,251,186)	CKSRYB103K50	
C 532	(A,295,91)	CFTNA224J50		C 831	(B,255,202)	CKSRYB471K50	
C 533	(B,291,86)	CKSRYB103K50		C 832	(B,257,202)	CKSRYB103K50	E
C 534	(A,284,91)	CFTNA224J50		C 833	(B,247,190)	CKSRYB103K50	
C 535	(A,284,86)	CFTNA224J50		C 834	(B,253,186)	CCSRCH471J50	
C 536	(B,293,82)	CKSRYB103K50		C 842	(B,248,182)	CKSRYB103K50	
C 541	(A,287,171)	CEAT4R7M50		C 843	(B,248,176)	CKSRYB103K50	
C 542	(A,287,182)	CFTNA224J50		C 851	(B,260,169)	CKSRYB221K50	
C 543	(B,273,182)	CKSRYB103K50		C 852	(B,251,154)	CKSRYB104K50	
C 544	(B,273,176)	CKSRYB103K50		C 853	(B,247,165)	CKSRYB221K50	
C 545	(A,287,177)	CFTNA273J50		C 862	(B,240,166)	CKSRYB104K50	
C 551	(B,269,171)	CKSRYB272K50		C 863	(B,236,165)	CKSRYB104K50	
C 552	(B,262,176)	CKSRYB103K50		C 864	(A,240,169)	CEAT100M50	F
C 553	(B,267,187)	CKSRYB272K50		C 865	(A,230,169)	CEAT101M16	
C 554	(A,290,188)	CEAT100M50		C 866	(B,231,53)	CKSRYB474K16	
C 555	(B,262,182)	CKSRYB103K50		C 867	(B,225,41)	CKSQYB472K50	

**Circuit Symbol and No.****Part No.**

C 868	(B,244,42)	CKSQYB472K50
C 869	(A,230,176)	CEAT100M2A
C 870	(B,237,53)	CKSRYB474K16
C 871	(B,230,172) 10 000 pF	CCG1245

A

C 872	(B,240,171)	CKSYB475K25
C 885	(A,216,61)	CQMA102K2E
C 886	(A,246,50)	CQMA102K2E
C 887	(A,193,62) 1 µF	CCE1035
C 888	(A,201,62) 1 µF	CCE1035

C 891	(A,270,83) 10 µF	CCE1038
C 892	(A,254,126) 10 µF	CCE1038
C 893	(B,309,73)	CKSQYB103K50
C 894	(B,291,70)	CKSRYB103K50
C 895	(B,297,50) 2 200 pF	CCG1248

B

C 896	(B,297,72)	CKSQYB103K50
C 901	(B,199,47)	CKSRYB103K50
C 902	(B,157,63)	CKSRYB104K50
C 903	(B,196,45)	CKSQYB103K50
C 911	(B,203,47)	CKSRYB103K50

C 912	(B,166,59)	CKSRYB104K50
C 913	(B,166,62)	CKSRYB104K50
C 914	(B,205,46)	CKSQYB103K50
C 921	(A,250,146)	CEANP221M10
C 932	(B,240,147)	CKSRYB473K50

C

C 941	(B,221,146)	CKSRYB474K16
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**B****Unit Number : CWM9848****Unit Name : Remote Control Unit****MISCELLANEOUS**

Q 1351	(B,21,23) Chip Transistor	DTC114EUA
Q 1352	(B,22,6) Chip Transistor	DTC114EUA
D 1351	(B,12,25) Diode	DAN202U
D 1352	(B,16,6) Diode	DAN202U
D 1366	(B,21,11) Diode	UDZS16(B)
D 1367	(B,29,16) Diode	UDZS16(B)
S 1351	(A,6,11) Switch(BASS BOOST)	CSD1128

D

**RESISTORS**

R 1351	(B,15,16)	RS1/16S103J
R 1352	(B,18,18)	RS1/16S102J
R 1353	(B,31,21)	RS1/16S103J
R 1354	(B,31,16)	RS1/16S102J
R 1359	(B,16,8)	RS1/16S102J

E

F